Form AEC-313
8-64
10 CFR 30

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved
Budget Bureau No. 38-R0027

INSTRUCTIONS. – Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1 (a) NAME AND STREET ADDRESS OF APPLICANT (Institution, firm, hospital, person, etc. Include ZIP Code.)

Department of the Army
Fitzsimons Army Medical Center and U.S.Army Medical Research and Nutrition Laboratory
Denver, Colorado 80240

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from 1 (a). Include ZIP Code.)

Department of the Army
Fitzsimons Army Medical Center and U.S. Army Medical Research and Nutrition Laboratory
Denver, Colorado 80240

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

Department of the Army
Fitzsimons Army Medical Center and U.S.Army Medical Research and Nutrition Laboratory

3 PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate, and give number.)

See application dated 12 March 1973 (Control No. 35871).

4. INDIVIDUAL USER(S) (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)

See application dated 12 Mar 1973. (Control No. 35871)

5 RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)

See application dated 12 Mar 1973 (Control No. 35871)

6. (a) BYPRODUCT MATERIAL (Elements and mass number of each.)

See application dated 25 June 1968, and subsequent amendments.

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973 (Control No. 35871).

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TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 *(Use supplemental sheets if necessary)*

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection	See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973 (Control No. 35871).		Yes No	Yes No
b. Radioactivity measurement standardization and monitoring techniques and instruments			Yes No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity			Yes No	Yes No
d. Biological effects of radiation			Yes No	Yes No

9. EXPERIENCE WITH RADIATION *(Actual use of radioisotopes or equivalent experience.)*

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973 (Control No. 35871).				

10. RADIATION DETECTION INSTRUMENTS *(Use supplemental sheets if necessary.)*

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm²)	USE (Monitoring, surveying, measuring)
See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973 (Control No. 35871).					

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE

See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973. (Control No. 35871)

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED *(For film badges, specify method of calibrating and processing, or name of supplier.)*

See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973.(Control No. 35871).

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No

See attached sheet

14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures, where applicable; type, training, and experience of person to perform leak tests and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source.

See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973 (Control No. 35871).

15. WASTE DISPOSAL. If commercial waste disposal service is employed, describe range of services. Otherwise, submit detailed description of methods that will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved.

See application dated 25 June 1968 and subsequent amendments and application dated 12 March 1973(Control No. 35871).

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Fitzsimons Army Medical Center and U.S. Army Medical Research and Nutrition Laboratory
Applicant named in item 1

Date 12 April 1973

By: Herbert F. Cowgill
HERBERT F. COWGILL, M.D.
Colonel, MC
Chief, Department of Radiology
Title of certifying official

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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.

ITEM 13: Request license 05-00046-13 be amended as follows:

Change paragraph 19 to add the following condition:

Use of byproduct material for in-vitro testing in locations other than those specified in application dated 25 June 1973 may be accomplished after a safety survey by the Radiation Protection Officer and approval by the FAMC Radioisotope Committee.