



DEPARTMENT OF THE ARMY
OFFICE OF THE SURGEON GENERAL
WASHINGTON, D.C. 20315

IN REPLY REFER TO:
MEDPS-PE

15 April 1966

Isotopes Branch
Division of Materials Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Gentlemen:

Recommend approval of the inclosed application for amendment to
Byproduct Material License No. 5-46-13(A66) for U. S. Army Medical
Research and Nutrition Laboratory, Fitzsimmons General Hospital, Denver,
Colorado.

Sincerely,

C. R. LEWIS, JR.
Colonel, MSC
Preventive Medicine Division

1 Incl
AEC-313 (in trip)



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APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. 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.) Department of the Army Fitzsimons General Hospital 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).) Same as item 1(a)	
2. DEPARTMENT TO USE BYPRODUCT MATERIAL As specified in License No. 5-46-13 (A66) (As amended)		3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) 5-46-13 (A66) Renewal (As amended)	
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.) As specified in License No. 5-46-13 (A66) (As amended)		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.) As designated by Radioisotope Committee	
6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) See License No. 5-46-13 (A66) (As amended)		(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.) License No. 5-46-13 (A66) (As amended)	
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.) As specified in License No. 5-46-13 (A66) (As amended) See Appendix I (attached)			

APPENDIX I

The following animals are being, and/or will be used in laboratory experiments involving the use of radioisotopes:

1. Rats
2. Rabbits
3. Chickens
4. Guinea Pigs
5. Dogs
6. Hamsters
7. Mice
8. Ground Squirrels
9. Japanese Quail
10. Cats

Animals used in radioisotope studies are kept in areas specifically designated for radioisotope use. These areas are posted and are monitored weekly or as necessary for the type and quantity of radiation present.

Each individual animal caretaker working with or near animals used in radioisotope studies is issued a film badge. Before a film badge is issued, each individual must read both CFR, Title 10, Part 20, and the Laboratory SOP, and certify in writing that he has read and understands both.

In addition, animal caretakers are instructed to save all waste and excreta and to turn it over to the Radioisotope Section for disposal. They are instructed to use rubber gloves at all times and other protective

clothing when necessary while working with animals which have received radioisotopes and are supervised by the principal investigator, who is approved by the Radioisotope Committee to use specific radioisotopes.

Absorbent paper is used to catch all animal excreta and is given to the Radioisotope Section for disposal. Cage washers are monitored and samples of the wash water are taken and counted, and the results are kept in a permanent log. All carcasses are also turned over to the Radioisotope Section where they are stored in a freezer designated for storage of radioactive material prior to disposal.

All disposal of radioactive waste including animal wastes and carcasses is carried out by the Radioisotope Section under supervision of the Radiation Safety Officer. The waste is packed according to AEC, ICC and Department of the Army regulations and is shipped by commercial refrigerated van to the Army Chemical Center, Edgewood Arsenal, Maryland for ultimate disposal.

In addition to the animals listed in the first paragraph, various animal tissues are used to tag and obtain certain elements and chemicals. Tissues from cattle, swine, horses, sheep and primates are used in in vitro experiments without utilization of the intact animal. Human tissues are occasionally used in a similar manner. Also, experiments using radioisotopes are conducted with various microorganisms with adherence to standard radiation safety practices.