

4-181-1

**INSTRUCTIONS:** Complete Items 1 through 19 if this is a new application. If renewal is requested, complete only Items 1 through 11 provided that with respect to the other items there has been no change in the information previously submitted. Mail two copies to: U. S. Atomic Energy Commission, P.O. Box E, Oak Ridge, Tennessee, Attention: Isotopes Extension, Division of Civilian Applications. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. General requirements for issuance of an AEC Byproduct Material License are contained in Title 10, Code of Federal Regulations, Part 30.

1. (a) NAME AND SHIPPING ADDRESS OF APPLICANT <i>(Institution, firm, hospital, person, etc.)</i> <b>Veterans Administration Center Wilshire and Sawtelle Blvds. Los Angeles 25, Calif.</b>	(b) ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED <i>(If different from shipping address)</i> <b>SAME</b>
2. DEPARTMENT TO USE BYPRODUCT MATERIAL <b>Radioisotope Service</b>	
3. INDIVIDUAL USER <i>(Name and title of individual(s) who will use or directly supervise use of byproduct material)</i> <b>FRANZ K. BAUER, M.D., Chief, Radioisotope Service</b>	
4. RADIOLOGICAL SAFETY OFFICER <i>(Name of person qualified in radiological safety, if other than individual user)</i>	
5. PREVIOUS LICENSE OR AUTHORIZATION NUMBER <i>(If this is an application for renewal of a license for byproduct material obtained under a prior license or authorization for radioisotope procurement)</i> <b>No. 36582</b>	

BYPRODUCT MATERIAL OR IRRADIATION SERVICE DESIRED		
6. BYPRODUCT MATERIAL <i>(Element and mass number)</i> <b>Iodine I31</b>	7. CHEMICAL AND/OR PHYSICAL FORM <i>(Or catalog number)</i> <b>Oleic Acid-I<sup>131</sup>, Triolein-I<sup>131</sup> preassayed and sterilized by supplier</b>	8. MAXIMUM AMOUNT OF RADIOACTIVITY IN MILLI-CURIES THAT YOU WILL POSSESS AT ANY ONE TIME <b>10 mc.</b>
9. IF IRRADIATION SERVICE IS DESIRED, STATE PERTINENT DETAILS SUCH AS: CHEMICAL COMPOSITION AND WEIGHT IN GRAMS OF TARGET MATERIAL, RADIOACTIVITY, IRRADIATION TIME IN DAYS, AND NEUTRON FLUX		

STATEMENT OF USE	
10. (a) DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. <i>(If material is for "human use" complete Supplement A in lieu of this item. If material is to be used in or manufactured as a "sealed source" complete Supplement B in addition to this item.)</i>  <b>Supplementary Application to Authorization No. 36582. No change in usage.</b>	
(b) DESCRIBE PROCEDURES WHICH WILL BE OBSERVED TO MINIMIZE HAZARD FROM HANDLING, STORAGE, AND DISPOSAL OF THE BYPRODUCT MATERIAL	

CERTIFICATE	
11. 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 do solemnly swear (or affirm) that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.	
State of <u>CALIFORNIA</u> County of <u>LOS ANGELES</u> Subscribed and sworn to before me this <u>seventh</u> day of <u>MARCH</u> 1956  <i>[Signature]</i> Notary Public	By <u>FRANZ K. BAUER, M.D.</u> <b>CHIEF, RADIOISOTOPE SERVICE</b> Title of Certifying Official  <u>MARCH 7, 1956</u> Date

**WARNING**

18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a knowingly false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

GRAHAM MCSENEY, JR.  
Atomic Medicine Service  
Veterans Administration

(Continued on reverse side)

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Form AEC 313a  
(9-55)

**APPLICATION FOR BYPRODUCT MATERIAL LICENSE**  
SUPPLEMENT A—HUMAN USE

Form Approved,  
Budget Bureau No. 38-R080.

If byproduct material is for "human use" (internal administration of byproduct material, or the radiation therefrom to human beings), complete this supplement and attach to the application for byproduct material license.

**QUALIFICATIONS OF PHYSICIAN WHO WILL SUPERVISE USE OF BYPRODUCT MATERIAL**

1. THE INDIVIDUAL USER(S) ITEM 3, PAGE ONE, OF THIS APPLICATION IS (ARE) LICENSED TO DISPENSE DRUGS IN THE PRACTICE OF MEDICINE IN THE STATE OR TERRITORY WHERE THE BYPRODUCT MATERIAL WILL BE USED. CIRCLE ANSWER  YES  NO

2. **CLINICAL TRAINING AND EXPERIENCE WITH BYPRODUCT MATERIAL**

NOTE: Customarily item 2 is completed and signed by the preceptor. (See instructions.)

(A) ISOTOPE	(B) TOTAL NUMBER OF HOURS OF PARTICIPATION IN TRAINING PROGRAM	(C) CONDITION(S) DIAGNOSED OR TREATED (e. g., diagnosis of thyroid function, treatment of hyperthyroidism)	(D) NUMBER OF CASES	(E) TYPE OF PARTICIPATION FOR ALL CASES IN COLUMN D (circle applicable numbers of items in accordance with key set forth below)
See previous applications from the undersigned.				1 2 3 4 5 6 7 8
				1 2 3 4 5 6 7 8
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				1 2 3 4 5 6 7 8
				1 2 3 4 5 6 7 8
				1 2 3 4 5 6 7 8

Key to above numbers

*Active participation and observation*

1. Evaluation of the suitability of the patient for radioisotope diagnosis and/or treatment by taking patient histories and performing medical examinations and/or study of case histories.
2. Collaboration in diagnosis and/or treatment and dosages prescribed.
3. Measurement of doses and their administration.
4. Related measurements and plotting of data.
5. Active period of training and experience of sufficient duration to permit the following of specific patients through treatment and post-treatment periods, including reevaluation as to effectiveness and complications.
6. Study of case histories (without seeing patients).
7. Study of case histories (observed patients).
8. Observation and discussion of diagnostic and/or therapeutic techniques, as well as management of patients during follow-up periods.

3. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OR GUIDANCE OF

..... AT Wadsworth Hospital Frank Bauer  
(Name of physician (preceptor)) (Institution) (Signature)  
Veterans Administration Franz K. Bauer, M.D.  
Center, Los Angeles

**HOSPITAL FACILITIES FOR INDIVIDUAL PRACTICE USE ONLY**

4. (a) THE APPLICANT HAS COMPLETED ARRANGEMENTS FOR A HOSPITAL TO ADMIT RADIOACTIVE PATIENTS WHENEVER ADVISABLE.	CIRCLE ANSWER	YES	NO
(b) A COPY OF INSTRUCTIONS TO BE FURNISHED TO THE HOSPITAL AS TO RADIOLOGICAL SAFETY PRECAUTIONS TO BE TAKEN AND AVAILABLE RADIATION INSTRUMENTATION IS ATTACHED.	CIRCLE ANSWER	YES	NO
5. PATIENTS CONTAINING MORE THAN 30 MILLICURIES OF RADIOACTIVITY WILL BE HOSPITALIZED UNTIL BODY CONTENT OF RADIOACTIVITY IS LESS THAN 30 MILLICURIES (see instructions).	CIRCLE ANSWER	YES	NO