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42-143-2

Form AEC-313 (9-55) APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved. Budget Bureau No. 38-R027.3.

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 Application. 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.

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 (Institution, firm, hospital, person, etc.)	(b) ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from shipping address)
American Oil Company	
Texas City, Texas	Same
2 DEPARTMENT TO USE BYPRODUCT MATERIAL Research and Development	
3. INDIVIDUAL USER (Name and title of individual(s) who will use or directly supervise	use of by product material)
Harold H. Hammen	
 RADIOLOGICAL SAFETY OFFICER (Name of person qualified in radiological sufety, in Same 	f other than individual user)
5. PREVIOUS LICENSE OR AUTHORIZATION NUMBER (1fthis is an application for re radioIsotope procurement)	enewal of a license for byproduct material obtained under a prior license or authorization for
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BYPRODUCT MATERIAL OR II	RRADIATION SERVICE DESIRED
6. BYPRODUCT MATERIAL (Element and mass number) 7. CHEMICAL AND/OR PHYS Sulfur-35	ICAL FORM (Or catalog 8. MAXIMUM AMOUNT OF RADIOACTIVITY IN MILLI- CURIES THAT YOU WILL POSSESS AT ANY ONE TIME
Any	100
Hydrogen-3 Any Cobalt-60 Element	1000
	AS: CHEMICAL COMPOSITION AND WEIGHT IN GRAMS OF TARGET MATERIAL,
0. (a) DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. is to be used in or manufactured as a "sealed source" complete Supplement B in ad	ion studies of sulfur compounds and cale equipment. Cobalt-60 used for Lant equipment. (cf. 28247) FROM HANDLING, STORAGE, AND DISPOSAL OF THE BYPRODUCT MATERIAL tory facilities established. All
CERT	FICATE
is prepared in conformity with Title 10, Code of Federal Regu	half of the applicant named in Item 1, certify that this application lations, Part 30, and do solemnly swear (or affirm) that all informareto, is true and correct to the best of our knowledge and belief. American Oll Company Applicant named in Item 1
Subscribed and sworn to before me thisday of	Director, Research and Development Title of Certifying Official
<u></u>	February 5, 1957
Notary Public	Date 11112
WAI	

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.

Form AEC-313b

FOR BYPRODUCT MATERIAL LICENSE APPLICATIC.

SUPPLEMENT B-SEALED SOURCES

Form approved. Budget Bureau No. 38-R028.3.

If application is for byproduct material to be used in or manufactured as a "sealed source" complete this supplement and attach to

the application for byproduct material license. Applicant for use of sealed source should complete Section I. An applicant desiring to manufacture a sealed source should complete Section II. If information has been submitted previously and there are no changes in the sealed source and/or device design or other changes in information submitted previously, details requested below may be omitted provided reference is made on line below to the application or other document on which this information appears:	
Originally Authorized No. 28247 SECTION I—USE (See instructions)	
A. Manufacturer or supplier of sealed source and/or device Tracerlab, Inc.	
B. Make and model number of sealed source and/or device Dwg. No. D110094 Rev. C 12/15/54	
C. Person who will hold legal title to sealed source American Oil Company	
2. (a) NAME OF PERSON WHO WILL PERFORM NECESSARY PERIODIC LEAKAGE TESTS (6-month intervals for beta-gamma; 3-month period for alpha emitters. See instructions Source type exempt from leakage tests	
(b) IF ABOVE PERSON IS NOT THE SUPPLIER, MANUFACTURER, NOR A COMMERCIAL LABORATORY ROUTINELY OFFERING SUCH SERVICES, GIVE BRIEF STATE MENT OF EXPERIENCE OR TRAINING OF SUCH PERSON IN TECHNIQUES TO BE EMPLOYED. A STATEMENT OF LEAK TESTING PROCEDURES INCLUDING EVIDENCE OF ITS EFFICACY AND INSTRUMENTATION TO BE USED:	
3. ARRANGEMENTS WHICH WILL PREVAIL FOR PERFORMING INITIAL RADIATION SURVEY (if appropriate), SERVICING MAINTENANCE, REPAIR, CONTROL, AND DISPOSAL, ETC., OF THE SOURCE:	
Cutie-pie type survey meter (Tracerlab SU-IF) will be used to survey area around source and warning signs posted for all locations showing more than 1 mr/hr.	
SECTION II—MANUFACTURE	
4. IF SEALED SOURCE TO BE MANUFACTURED OR FABRICATED BY THE APPLICANT IS DESIGNED TO TRANSMIT ONLY GAMMA RAYS AND CONTAINS IN ELEMENTAL	

- 5 THROUGH 12 ON THIS SUPPLEMENT:
 - (a) Quantity of byproduct material per source and model number
 - (b) Leak testing procedure to be employed:
- (c) Attach annotated engineering drawing of source container and holder, if any:
- (d) Describe label to be affixed to source container and/or source holder (or attach copy. See instructions):