

**AMERICAN OIL COMPANY****(TEXAS)****TEXAS CITY, TEXAS**

RESEARCH AND DEVELOPMENT DEPARTMENT

April 10, 1956

PHILIP C. WHITE  
MANAGERProcurement of Radioisotopes

Isotopes Extension  
Division of Civilian Application  
Atomic Energy Commission  
P. O. Box E  
Oak Ridge, Tennessee

Gentlemen:

Enclosed herewith are two copies of completed form AEC-313 requesting a by-product material license for the purchase and use of up to 1000 millicuries of krypton-85 gas. Items 11 through 19 have been completed on a previous request for a license issued as No. 42-143-1.

Attached to the request forms are copies of our company memorandum describing the scope of the proposed use of this material and the method and safety considerations involved. We would be pleased to have your comments and any references you can supply on experience with handling and transferring krypton-85 in 500-1000 millicurie quantities.

Very truly yours,

OK. MJK

*Philip C. White*  
Philip C. White

HHH/jad

A/5

ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

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.

1. (a) NAME AND SHIPPING ADDRESS OF APPLICANT (Institution, firm, hospital, person, etc.) American Oil Company (Texas) Texas City, Texas	(b) ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from shipping address) 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 byproduct material) Harold E. Hammer	
4. RADIOLOGICAL SAFETY OFFICER (Name of person qualified in radiological safety, if other than individual user) Same	
5. PREVIOUS LICENSE OR AUTHORIZATION NUMBER (If this is an application for renewal of a license for byproduct material obtained under a prior license or authorization for radiologic procedure) Items 11 through 19 completed on No. 42-143-1	

BYPRODUCT MATERIAL OR IRRADIATION SERVICE DESIRED

6. BYPRODUCT MATERIAL (Element and mass number) Krypton-85	7. CHEMICAL AND/OR PHYSICAL FORM (Or catalog number) G.R.	8. MAXIMUM AMOUNT OF RADIOACTIVITY IN MILLICURIES THAT YOU WILL POSSESS AT ANY ONE TIME 1000
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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  
Not applicable

STATEMENT OF USE

10. (a) DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If material is for "business use" complete Supplement A in lieu of this item. If material is to be used in or manufactured as a "radioisotope" complete Supplement B in addition to this item.)  
Determination of leakage of valve sealing gas into process stream of commercial catalytic reforming unit.

(b) DESCRIBE PROCEDURES WHICH WILL BE OBSERVED TO MINIMIZE HAZARD FROM HANDLING, STORAGE, AND DISPOSAL OF THE BYPRODUCT MATERIAL.  
See attachment, American Oil Company Memorandum ATM56-26.

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 Texas  
County of Galveston  
Subscribed and sworn to before me this 12th day of April, 1956  
*Edna Sanger*  
Notary Public, Galveston County, Texas

American Oil Company (Texas)  
Applicant named in Item 1  
By Philip C. White, Jr.  
Manager, Research and Development Dept.  
Title of Certifying Official  
April 12, 1956  
Date

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.