

IN REPLY REFER TO:  
IER:RLH (42-143-2)

Oak Ridge, Tennessee  
February 15, 1957

Mr. Arlie A. O'Kelly  
Research and Development Department  
American Oil Company (Texas)  
Texas City, Texas

Subject: AMENDMENT NO. 3 TO LICENSE NO. 42-143-2

Dear Mr. O'Kelly:

Enclosed please find Amendment No. 3 to License No. 42-143-2 issued against your recent request for byproduct material.

A license covering Hydrogen 3 (Tritium) is issued on a procurement limit and a possession limit basis. Your application specified a possession limit of 1 curie but did not specify a procurement limit. Therefore, in order to expedite your application, we have arbitrarily established the procurement limit as 10 curies of Hydrogen 3. If this limit is not satisfactory, please notify us of the desired amount you wish to purchase during the valid period of your license, and we will amend your license accordingly.

Very truly yours,

for: Cecil R. Buchanan, Assistant Chief  
Byproduct Licensing Branch  
Isotopes Extension  
Division of Civilian Application

Enclosures:

1. Amendment No. 3 to License No. 42-143-2
2. Application Forms w/instructions

CC: Harold H. Hammen, Texas City, Texas

Hervin:bc

OFFICE ▶	Isotopes	Isotopes				
SURNAME ▶	<i>[Signature]</i>					<i>A/13</i>
DATE ▶	2-15-57	2-15-57				

BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number 42-143-2

AMENDMENT NO. 3

American Oil Company (Texas)  
Research and Development Department  
Texas City, Texas

Attn: Harold H. Hammen

In accordance with application dated February 5, 1957, License No. 42-143-2 is hereby amended to add the following:

<p>6. Byproduct material (element and mass number)</p> <p>Sulfur 35 Hydrogen 3 (Tritium) Cobalt 60</p>	<p>7. Chemical and/or physical form</p> <p>Any Any Sealed Source (Tracerlab Dwg. D-110094)</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>100 millicuries 1 curie 50 millicuries</p>
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Authorized use

- 35 and H 3: Tracer applications for reaction studies of sulfur compounds and hydrocarbons on bench and pilot plant scale equipment.
- 60: Density and thickness measurements on plant equipment.

CONDITIONS

- Cobalt 60 shall be used as sealed source for purpose stated and source shall not be opened.
- Total amount of Hydrogen 3 (Tritium) procured under this license shall not exceed 10 curies.

**SUPERSEDED**  
By License Number  
42-143-3

For the U. S. Atomic Energy Commission

Date February 15, 1957

by PCB/MB 2-15-57

Director, Isotopes Extension  
Division of Civilian Application  
Oak Ridge, Tennessee

*30/27/57*