

U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material; and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

**DUPLICATED**  
FOR DIV. OF INSP.

<b>Licensee</b> 1. Name <b>National Research Corporation Applied Physics Department</b> 2. Address <b>70 Memorial Drive Cambridge, Massachusetts</b>		3. License number <b>20-1465-4 (15)</b> 4. Expiration date <b>December 11, 1963</b> 5. Reference No.
6. Byproduct material (element and mass number)  <b>A. Krypton 85</b>  (See Page 2)	7. Chemical and/or physical form  <b>A. U. S. Radium Corporation Sealed Sources Model No. LAB 519</b>  (See Page 2)	8. Maximum amount of radioactivity which licensee may possess at any one time  <b>A. Two sources of 160 millicuries each</b>  (See Page 2)
9. Authorized use  <b>A: Sources used in experimental gas chromatography detector.</b>		

**CONDITIONS**

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
11. Source listed in sub-item B may also be used at Esso Research and Development Corp., Elizabeth, New Jersey.
12. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation".
13. Byproduct materials shall be used by, or under the direct supervision of, J. R. Roehrig.

For the U. S. Atomic Energy Commission

Original Signed By  
James R. Mason 12-51

Date December 11, 1958

by *JRM* Chief, Isotopes Branch  
Division of Licensing and Regulation  
Washington 25, D. C.

*Gray M. Her*

*B148*



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Supplementary Sheet

License Number ~~20-1465-~~  
(L63)

6. Byproduct material  
(element and mass number)

B. Krypton 85

7. Chemical and/or physical form

B. U. S. Radium Corporation  
Sealed Source Model No.  
IAB 472

8. Maximum amount of  
radioactivity which  
licensee may possess  
at any one time

B. 550 millicuries

9. Authorized use

B: Source used in helium-in-air detector.

For the U. S. Atomic Energy Commission

Original Signed By  
James R. Mason

Date December 11, 1958

by Chief, Isotopes Branch  
Division of Licensing and Regulation  
Washington 25, D. C.