

## U. S. ATOMIC ENERGY COMMISSION

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## BYPRODUCT MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, 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.

## Licensee

1. James R. Carroll, M.D.  
Warren Professional Building  
  
2. 6465 South Yale Avenue  
Tulsa, Oklahoma 74135

3. License number 35-13202-01

4. Expiration date April 30, 1974

5. Reference No.

35-2924

6. Byproduct material  
(element and mass number)7. Chemical and/or physical  
form8. Maximum amount of radioac-  
tivity which licensee may  
possess at any one time

A. Strontium 90

A. Sealed Source  
(Atlantic Research  
Model No. B-1)

A. 120 millicuries

## 9. Authorized use

A. Treatment of eye diseases.

## CONDITIONS

10. Byproduct material may only be used at the licensee's address stated in Item 2 above.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 20, "Standards for Protection Against Radiation."
12. Byproduct material shall be used by James R. Carroll, M.D.
13. Sealed sources containing byproduct material shall not be opened.

## BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number 35-13202-01

## CONDITIONS

(Continued)

14. A. Each sealed source containing byproduct material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months, except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed three months. In the absence of a certificate from a transferor, indicating that a test has been made within six months prior to the transfer, the sealed source shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five days of the test with the Director, Division of Materials Licensing, U. S. Atomic Energy Commission, Washington, D. C., 20545, describing the equipment involved, the test results, and the corrective action taken. A copy of such report shall also be sent to the Director, Region IV, Division of Compliance, USAEC, 10395 West Colfax Avenue, Denver, Colorado, 80215.
- D. Tests for leakage and/or contamination shall be performed by anyone specifically authorized by the Commission or an Agreement State to perform such services.

Date

APR 15 1969

For the U. S. Atomic Energy Commission

Original Signed By *JB*  
John E. Bowyerby Isotopes Branch 4-15-69Division of Materials Licensing  
Washington, D. C. 20545*JB/gia*