

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, Parts 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 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now hereafter in effect and to any conditions specified below.

Licensee		
1. Beryllium Corporation	3. License number 37-07676-02	
2. Box 429 Hazleton, Pennsylvania 18201		
4. Expiration date August 31, 1973		
5. Reference No.		
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioac- tivity which licensee may possess at any one time
A. Antimony 124	A. Sealed sources (U.S. Nuclear 3130 or 3200 or AECL RC-3, RC-5, RC-8, SRC-3 or C-129M)	A. 2 sources of 250 millicuries each

9. Authorized use

A. To be used in Boulder Scientific Company Model 200 Beryllium Analyzer to analyze samples.

CONDITIONS

- 10. Byproduct material may only be used at Beryllium Corporation, Reading Plant, Reading, Pennsylvania.
- 11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."
- 12. Byproduct material shall be used by, or under the supervision of, Kenneth J. Betz or Paul C. Kempchinsky.

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Supplementary Sheet

License Number 37-07676-02

(continued)

CONDITIONS

13. Sealed sources containing byproduct material shall not be opened or removed from their respective source holders by the licensee.
14. A(1) 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. 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.
- (2) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- 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 5 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 I, Division of Compliance, USAEC, 970 Broad Street, Newark, New Jersey, 07102.

14. continued

CONDITIONS

D. Tests for leakage and/or contamination shall be performed by persons specifically authorized by the Commission or an Agreement State to perform such services.

15. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated July 19, 1968.

Date AUG 16 1968

For the U. S. Atomic Energy Commission

Original Signed by
Robert E. Brinkman

by Isotopes Branch

Division of Materials Licensing
Washington, D. C. 20545

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