

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

47-260-2, AMENDMENT NO. 5
(166)

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.

Licensee	In accordance with application received April 7, 1960, 47-260-2 is amended in its entirety to read as follows:
1. Name Union Carbide Glefins Company Special Instrumentation Division	3. License number
2. Address 437 MacCorkle Avenue South Charleston, West Virginia	4. Expiration date September 30, 1960
	5. Reference No.

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time.
A. Cesium 137	A. Sealed sources (U. S. Radium Corp. Model LAB-236 or LAB-111C)	A. 4.6 curies (One source of 500 millicuries. No other single source shall exceed 200 millicuries)

9. Authorized use

- A. To be used in Ohmart Corporation Model SHRM, SHRH, SHRD, or HM-8 source holders for measuring the density of chemical process streams and the liquid level of chemicals in pipes and closed vessels.

CONDITIONS

- 10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
- 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 direct supervision of, H. T. Sessions or L. J. Rogers.
- 13. Byproduct material as sealed sources shall not be opened or removed from the Model SHRM, SHRH, SHRD, or HM-8 source holders by the licensee.
- 14. Sealed sources containing Cesium 137 shall be tested for external contamination and/or leakage upon receipt from another person, except where the licensee receives certification from the supplier that the sources had been tested within 30 days prior to transfer and found free of surface contamination. Sources used in Model SHRM and SHRH source holders shall be tested for contamination and/or leakage at intervals of not more than three (3) years thereafter. Sources used in Model

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Supplementary Sheet

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CONTINUED:

CONDITIONS

14. (continued) SHRD and HM-8 source holders shall be tested for contamination and/or leakage at intervals of not more than six (6) months thereafter. Sources semipermanently or permanently mounted in a device may be tested by checking accessible surfaces of the device for removable radioactive material. The test shall be sufficiently sensitive to detect 0.05 microcuries of radioactive material on the surface of sources or devices. Records of leak test results shall be maintained by the licensee.

If the test reveals removable radioactive material, the licensee shall take immediate action to prevent spread of contamination, and shall notify the Isotopes Branch, Division of Licensing and Regulation, within 30 days.

Tests shall be performed by N. H. Ketcham, as described in letter of September 5, 1958, from L. J. Rogers, or by other persons specifically licensed by the Commission to perform such tests.

15. Byproduct material as sealed sources shall be encapsulated prior to possession by the licensee.

16. 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 his applications dated July 19, 1956; December 5, 1956; application enclosed with letter from G. S. Givens, dated August 22, 1956; and application received April 7, 1960.

For the U. S. Atomic Energy Commission
Original Signed By
James R. Mason
Chief, Isotopes Branch

Date April 27, 1960

DUPLICATED

FOR DIV. OF INSP.

Division of Licensing and Regulation
Washington 25, D. C.

1. J. J. [Signature]

*Annville
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REB 4/28/60