

## U. S. ATOMIC ENERGY COMMISSION

Page 1 of 2 Pages

BYPRODUCT MATERIAL LICENSE No. 47-260-2 Amendment No. 15  
(H66)

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.

<b>Licensee</b>		In accordance with application dated July 27, 1964,	
1. Name	Union Carbide Corporation	3. License number	47-260-2 is amended in its entirety to read as follows:
2. Address	Union Carbide Olefins Company Div. 437 Mac Corkle Avenue South Charleston, West Virginia	4. Expiration date	August 31, 1966
		5. Reference No.	
<b>6. Byproduct material (element and mass number)</b>		<b>7. Chemical and/or physical form</b>	
A. Cesium 137		A. Sealed sources	
B. Strontium 90		B. Sealed sources	
		<b>8. Maximum amount of radioactivity which licensee may possess at any one time</b>	
		A. 15 curies total	
		B. 5 curies total	

**9. Authorized use**

- A. and B. To be used in gauging equipment for measurement of level or density of chemical processes. Evaluation, development, installation, and testing of gauging equipment.

**CONDITIONS**

~~10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.~~

10. Byproduct material may be used at facilities of the licensee at the Technical Center, Kanawha Turnpike, South Charleston, West Virginia; 437 MacCorkle Avenue, South Charleston, West Virginia; and at the Institute Plant, Institute, West Virginia.
11. The licensee shall comply with the provisions of Title 10, Code of Federal Regulations, Part 20, Chapter 1, "Standards for Protection Against Radiation."
12. Byproduct material shall be used by, or under the supervision of, H. T. Sessions or M. B. Young.
13. The licensee is further authorized to install and service specific or generally licensed gauges containing byproduct material at Union Carbide Corporation plants throughout the United States, except in Agreement States as defined in Section 30.4(u), Title 10, Code of Federal Regulations, Part 30.

(See Page 2)

A-23

U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSEPage 2 of 2 Pages

## Supplementary Sheet

License Number 47-260-2  
(H66)

Continued from page one

Amendment Number 15

## CONDITIONS

14. No gauge installed as a generally licensed device shall be installed in such a manner or in such a location that any person could receive more than 0.5 rem in a year under ordinary circumstances of use. After the installation of each generally licensed gauge a radiation survey of the installation shall be made and a copy furnished to the using facility.
15. A. Sealed sources licensed above shall be tested for leakage and/or contamination at intervals not exceeding six months, except that Ohmart Corporation sealed sources contained in Models SHRM and SHRH source holders shall be tested at intervals not exceeding three years. 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 II, Division of Compliance, USAEC, 50 Seventh Street, Northeast, Atlanta, Georgia, 30323.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
16. 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 27, 1964.

AUG 31 1964

Date \_\_\_\_\_

For the U. S. Atomic Energy Commission

Original Signed by

Robert E. Brinkman

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