

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 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. Name Union Carbide Corporation  
Chemicals and Plastics  
2. Address Operations Division  
Technical Center, P.O. Box  
8361  
South Charleston,  
West Virginia 25303

3. License number 47-00260-09  
4. Expiration date April 30, 1975  
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 pos- sess at any one time
A. Polonium 210	A. Sealed sources (Monsanto Research Corporation Model MRC-N SS-W-PoBe)	A. Not to exceed 5 curies total
B. Americium 241	B. Sealed sources (Monsanto Research Corporation Model MRC-N-SS-W-AmBe)	B. Not to exceed 5 curies total
C. Americium 241	C. Deposited source	C. 0.1 microcurie

9. Authorized use

- A. and B. To be used for testing steel vessels for carbon buildup.
- C. To be used as a calibration source.

CONDITIONS

10. Byproduct material may only be used at Chemicals and Plastics Operations Division, Technical Center, and at temporary job sites of the licensee anywhere in the United States where the Atomic Energy Commission maintains jurisdiction for regulating the use of byproduct material. This condition does not prohibit use in Agreement States (as defined in Section 30.4(c), 10 CFR 30) under reciprocity procedures which may be established by those States.

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Supplementary Sheet

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License Number \_\_\_\_\_

CONDITIONS

(Continued)

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, or under the supervision of, R. V. Sealey or C. R. Landfried.
13. 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 II, Division of Compliance, USAEC, Suite 818, 230 Peachtree Street, Northwest, Atlanta, Georgia, 30303.

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CONDITIONS

13. continued

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.

14. 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 April 2, 1970.

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Date APR 13 1970

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For the U. S. Atomic Energy Commission

Original Signed By  
Robert E. Brinkman  
Isotopes Branch

by \_\_\_\_\_

Division of Materials Licensing  
Washington, D. C. 20545

