

**U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSES**

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		
1. Name	Martin Marietta Corporation Nuclear Division	3. License number 19-1398-33 (B67)
2. Address	Baltimore, Maryland 21203	4. Expiration date February 28, 1967
		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. Promethium 147	A. Any	A. 100 curies

9. Authorized use

A. Development of a photovoltaic electrical energy cell.

**CONDITIONS**

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above:
11. Byproduct material shall only be used at Martin Marietta Corporation, Middle River, Maryland.
12. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."
13. Byproduct material shall be used by, or under the supervision of, F. Huffman or J. Neace.
14. A. Sealed sources containing Promethium 147 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.

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Supplementary Sheet

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CONDITIONS

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The test shall be capable of detecting the presence of 0.005 microcurie of radio-active 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.

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 I, Division of Compliance, USAEC, 376 Hudson Street, New York, New York, 10014.

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.

As specifically provided otherwise by this license, the licensee shall possess use byproduct material described in Items 6, 7 and 8 of this license in accordance with statements, representations and procedures contained in application dated February 12, 1965.

FEB 24 1965

For the U. S. Atomic Energy Commission

Original Signed by  
Robert E. Brinkman

Isotopes Branch  
by Division of Materials Licensing

Washington 25, D. C.

*R. E. Brinkman*