

BYPRODUCT MATERIAL LICENSE

No. 19-1398-29

(257) Attachment No. 17

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		Pursuant to application dated April 15, 1964	
1. Name	Martin-Mariette Corporation	3. License number	19-1398-29 is amended in its entirety to read as follows:
2. Address	Baltimore, Maryland 21203	4. Expiration date	June 30, 1967
		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. Strontium 90	A. As specified in Chapter 3 of MND-3137	A. 6,000,000 curies
B. Strontium 89	B., C., & D. Unseparated	B. 1,800,000 curies
C. Cerium 144	impurities accompanying A	C. 30,000 curies
D. Gross fission products other than Sr90, Sr89, or Ce 144		D. 30,000 curies

9. Authorized use

A. through D. For the production of isotopic heat sources.

CONDITIONS

- 10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
- 11. Byproduct material shall be used only at the licensee's pilot plant at Quehanna, Pa.
- 12. The licensee shall be subject to the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation," all other applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect, and to the conditions of this license.
- 13. Except as specifically provided otherwise by this license, the licensee shall possess and use the byproduct material described in items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in his application dated April 15, 1964, and document MND-3137, as revised and amended by the following items submitted in support of the application.
 - A. Restricted Reagent Data, Submitted April 16, 1964.
 - B. Revision pages (for MND-3137) listed in attachment to letter dated June 23, 1964.
 - C. Letter dated May 11, 1964.

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CONDITIONS

13. D. Letter dated August 27, 1964.
14. Each sealed source fabricated by the licensee shall be tested for contamination and/or leakage after fabrication and prior to transfer to an authorized recipient. If the test reveals the presence of 0.05 microcurie or more of removable contamination upon a 100 square centimeter wipe test, the licensee shall repair and/or decontaminate and retest the source.
15. Access of the control device specified in paragraph 20.203(c)(2) of Title 10, Part 20, Code of Federal Regulations, Chapter 1, access to high radiation areas shall be restricted by a "Special Absolute Integrity Locking System" as described in Sections 10.4.4.2 through 10.4.4.2.4 inclusive, of 10CFR-20.117.
16. Pursuant to Section 20.101(e)(3), of Title 10, Part 20, Code of Federal Regulations, the licensee is authorized to utilize respiratory protection equipment to control the exposure of personnel to air borne radioactive material in accord with the representations in Sections 10.6.12, 10.6.13, 10.7, 10.7.2, 10.7.3 (including Table 10.2), and 10.8.4 through 10.8.4.6 inclusive, of 10CFR-20.117.
17. Byproduct material shall not be placed in the storage pool except in chemical compounds specifically authorized by this license. The storage of uranium titanate in the pool is specifically authorized. An application requesting authorization to store other compounds in the pool should incorporate the results of tests conducted with the proposed compounds to establish the corrosion resistance of the materials to be used for encapsulating the respective compounds.

For the U. S. Atomic Energy Commission

Original Signed by
Lyll Johnsonby Division of Materials LicensingDivision of Licensing and Regulation
Washington 25, D. C.

Date

AUG 27 1964