

U. S. ATOMIC ENERGY COMMISSION BYPRODUCT MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter I, 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, as amended, 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. Isomatrix, Inc. 2. 25 Eastman Road P.O. Box 177 Parsippany, New Jersey 07054		3. License number 29-15364-01 4. Expiration date June 30, 1978 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 possess at any one time
A. Cobalt 60	A. Sealed sources (per sources described in application dated September 12, 1972)	A. 750,000 curies
B. Cesium 137	B. Sealed sources (RANCO-50-09HL and 09HL Model CIB 2128-B)	B. 250,000 curies
C. Strontium 90	C. Sealed sources (3M Model 3M1L)	C. 500 curies
D. Cesium 137	D. Chloride powder contained in welded 09HL Type A-ED-2310 or 09HL Type IV SK-365-B)	D. 41,000 curies
E. Cesium 137	E. Sealed source (Tracerlab Model K35-50)	E. 50 millicuries
F. Cobalt 60	F. Sealed source (Tracerlab Model K32-10)	F. 10 millicuries

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE
Supplementary Sheet

9. Authorized use

- A. To be used in hot cells 1 (150,000 curies maximum) and 2-3 (200,000 curies maximum) for irradiation of materials, excluding explosives, flammables, and corrosive materials. 400,000 curies may be received and maintained in storage pool. 3f
- B. and C. To be received, stored, handled, tested, loaded into irradiator equipment, and distributed to authorized recipients. 2A
- D. To be received and maintained in storage in hot cell #1 dry walls.
- E. and F. To be used for instrument calibration.

CONDITIONS

- 10. Byproduct material may only be used at the licensee's facilities located at 23 Eastman Road, Fairbairn, New Jersey, and leased from Radiation International, Inc., Fairbairn, New Jersey.
- 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, W. McKinn, R. Duff, G. Blatz, or G. Karl.
- 13. A. Each sealed source containing byproduct material 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.

B. The tests shall be capable of detecting the presence of 0.05 microcurie of contamination on the test sample. The test samples shall be taken from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE
Supplementary Sheet

License Number 29-15364-01

CONDITIONS

13. continued

C. If the test reveals the presence of 0.05 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 Directorate of 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 Region I, Directorate of Regulatory Operations, 631 Park Avenue, King of Prussia, Pennsylvania 19406.

B. Tests for leakage and/or contamination shall be performed by the Radiation Protection Officer 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 September 12, 1972, and letters dated September 7, 1972, January 5, 1973, and May 14, 1973.

For the U. S. Atomic Energy Commission

Original signed by *FC*
FRANK C. DAVIS
Materials Branch

by _____
Directorate of Licensing
Washington, D. C. 20545

Date AUG 13 1973

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27