

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	In accordance with application dated July 25, 1967
1. Melpar, Incorporated 7700 Arlington Boulevard	3. License number 45-07548-01 is amended <u>in its entirety to read as follows:</u>
2. Falls Church, Virginia 22046	
	4. Expiration date July 31, 1972
	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. Carbon 14	A. Any	A. 400 millicuries
B. Phosphorus 32	B. Any	B. 100 millicuries
C. Silver 110, 111	C. Any	C. 10 millicuries
D. Sulfur 35	D. Any	D. 100 millicuries
E. Hydrogen 3	E. Any	E. 3 curies
F. Krypton 85	F. Any	F. 10 curies
G. Any byproduct material from Atomic Nos. 3 to 83, inclusive	G. Irradiated solid samples	G. 400 millicuries total
H. Americium 241	H. Foils	H. 1 millicurie
I. Polonium 210	I. Foils	I. 1 millicurie
J. Hydrogen 3	J. Foils	J. 600 curies
K. Strontium 90	K. Foils	K. 40 millicuries
L. Nickel 63	L. Foils	L. 500 millicuries
M. Iron 55	M. Foils	M. 7 millicuries

9. Authorized use

A. through M. Research and development as defined in 10 CFR 30.

CONDITIONS

10. Byproduct material may only be used at Melpar Falls Church Plant, 7700 Arlington Boulevard, Falls Church, Virginia and Melpar Shirley Research Plant, Springfield, Virginia.

A-175

BYPRODUCT MATERIAL LICENS

Supplementary Sheet

License Number 45-07548-01

Amendment No. 32

(continued)

CONDITIONS

11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."
12. Byproduct material shall be used by, or under the supervision of, Sam S. Brody, Joel R. Finkel, John H. Fossum, William F. Hymes, ~~Douglas E. Lorenz~~, Joseph W. Paljug, ~~William J. Patterson~~, ~~Dr. Vera R. Usdin~~ or Dr. John E. Verna.
13. A. Foils other than Hydrogen 3 foils 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 foil 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 surfaces of the device in which the foil is 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 foil 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 each report shall also be sent to the Director, Region II, Division of Compliance, USAEC, 50 Seventh Street, Northeast, Atlanta, Georgia, 30323.

Supplementary Sheet

License Number 45-07548-01

Amendment No. 32

13. continued

CONDITIONS

- 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. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), Title 10, Code of Federal Regulations, Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing byproduct material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
15. 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 25, 1967.

AUG 8 1967

Date _____

For the U. S. Atomic Energy Commission

Original Signed By
Robert E. Brinkmanby Isotopes BranchDivision of Materials Licensing
Washington, D. C. 20545

REB 8/8/67

REB/Coak