FORM AEC-374A
(12-57)

S. ATOMIC ENERGY COMMISS



# BYPRODUCT MATERIAL LICENSE

## Supplementary Sheet

License Number 45-7548-1
(G63)

Amendment No. 7

Melpar, Incorporated
3000 Arlington Boulevard
Falls Church, Virginia

Attention: John F. Ambrose, Gerald Halpert, Dr. Frank L. Aldrich, Bruno M. Vasta, Marie Tiner, Victor R. Huebner, Dr. Robert C. McIlhenny

In response to applications dated June 11, 14 and 15, 1962 and letter dated June 12, 1962 from Dr. P. E. Ritt, License No. 45-7548-1 is amended as follows:

Subitems C and D are amended and Subitem E is added under Items 6, 7, 8 and 9 to read as follows:

| 6. Byproduct Material (element & mass number) | 7. Chemical and/or physical form | 8. Maximum amount of radioactivity which licensee may possess at any one time |
|---|---|---|
| C. Hydrogen 3 | C. Tritiated foil (U. S. Radium Corp. Model LAB-508-1 or equivalent) | C. 1 curie |
| D. Hydrogen 3 | D. Tritiated foil (Radiation Research Corp. Model T-1) | D. 300 millicuries |
| E. Strontium 90 | E. Sealed source (U. S. Radium Corp. Model LAB-369) | E. ~~10~~ 20 millicuries |

9. Authorized use

C., D. & E: To be used as sources of ionization in the development and use of gas chromatographic devices or systems.

Conditions 12 and 14 are amended and Condition 17 added to read as follows:

12. Byproduct material shall be used by, or under the supervision of, John F. Ambrose, Gerald Halpert, Dr. Frank L. Aldrich, Bruno M. Vasta, Marie Tiner, Victor R. Huebner, or Robert C. McIlhenny.

14. Except as 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 his applications dated June 8, 1961; June 13, 1961; July 17, 1961; July 18, 1961; December 21, 1961; February 28, 1962, June 11, 14 and 15, 1962; and letters dated August 8, 1961, November 3, 1961; and June 12, 1962.

A-17

A-1

FORM AEC-374A
(10-57)

U. S. ATOMIC ENERGY COMMISSION



**BYPRODUCT MATERIAL LICENSE**

**Supplementary Sheet**

License Number 45-7548-1
(G63)

Continued from page 1

Amendment No. 7

17. A. 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 six months prior to the transfer, the sealed source shall not be put into use until tested.

B. The test shall be capable of detecting the presence of 0.005 microcurie of removable contamination on the source. The test sample shall be taken from the 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 five days of the test with the Director, Division of Licensing and Regulation, U. S. Atomic Energy Commission, Washington 25, D. C., 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, 50 Seventh Street, Northeast, Atlanta 23, Georgia.

D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission to perform such services.

Condition 15 is deleted.

For the U. S. Atomic Energy Commission

Original Signed by
Robert E. Brinkman

Date JUN 25 1962

DUPLICATED
FOR DIV. OF COMPLIANCE

by Isotopes Branch

Division of Licensing and Regulation
Washington 25, D. C.