

U. S. ATOMIC ENERGY COMMISSION License No. 29-01022-06
BYPRODUCT MATERIAL I USE Page 1 of 3 Pages
Amendment No. 15

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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, 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.

<p style="text-align: center;">Licensee</p> <p>1. Department of the Army U. S. Army Electronics Command <i>INSEL-20-4</i> 2. Fort Monmouth, New Jersey 07703</p>	<p>In accordance with application dated May 11, 1973,</p> <p>3. License number 29-01022-06 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date <u>September 30, 1978</u></p> <hr/> <p>5. Reference No.</p>
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<p>6. Byproduct material (element and mass number)</p> <p>A. Any byproduct material between Atomic Nos. 1 and 83, inclusive, plus Polonium 210 and Americium 241</p> <p>B. Any byproduct material between Atomic Nos. 3 and 83, inclusive, plus Polonium 210 and Americium 241</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Sealed sources</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>A. Not to exceed 1 curie per radionuclide, except Hydrogen 3 - 600 curies</p> <p>B. Not to exceed 20 curies per radionuclide, except Cesium 137 - 835 curies Cobalt 60 - 440 curies</p>
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9. Authorized use

A. and B. Research and development as defined in 10 CFR 30.

CONDITIONS

10. Byproduct material shall be used only at the Fort Monmouth, New Jersey complex and the following locations:
- A. Fort Hancock, New Jersey X
 - B. Lakehurst Naval Air Station, New Jersey
 - C. Tobyhanna Army Depot, Pennsylvania
 - D. Fort Huachuca, Arizona
 - E. Fort Hood, Texas
 - F. Nevada Test Site, Nevada

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Supplementary Sheet

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(continued)

CONDITIONS

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, individuals designated by the licensee.
13. A(1) 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, except that each source designed for the purpose of emitting alpha particles shall be tested at intervals not to exceed three 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.
 - (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
 - (3) Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcuries of radioactive 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.

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13. continued

CONDITIONS

- 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 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.
- 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. 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 May 11, 1973.

Date SEP 4 1973

For the U. S. Atomic Energy Commission

Original Signed By

Robert E. Brickman

Materials Branch

by

Directorate of Licensing
Washington, D. C. 20545

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