

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

License No. 29-04459-01
Page 1 of 3 Pages

Amendment No. 25

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>Licensee</p> <p>1. General Instrument Corporation Signalite Division</p> <p>2. 1933 Heck Avenue Neptune, New Jersey 07753</p>		<p>In accordance with application dated April 2, 1974</p> <p>3. License number 29-04459-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date May 31, 1979</p> <p>5. Reference No.</p>
<p>6. Byproduct material (element and mass number)</p> <p>A. Krypton 85 B. Nickel 63 C. Cesium 137 D. Promethium 147 E. Hydrogen 3</p>	<p>7. Chemical and/or physical form</p> <p>A. Gas B. Plated electrodes C. Any D. Any E. Any</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>A. 100 curies B. 300 millicuries C. 400 millicuries D. 34 curies E. 200 curies</p>
<p>9. Authorized use</p> <p>A. through E. To be used in the manufacturing and engineering of glow lamps and electronic tubes.</p>		

CONDITIONS

- Byproduct material shall be used only the licensee's facilities at 1933 Heck Avenue, Neptune, New Jersey, and 1906 Rutherford Avenue, Neptune, New Jersey.
- The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
- Byproduct material shall be used by, or under the supervision of, Herbert J. Conins, Peter Oddo or Harry Parker.
- This license does not authorize distribution of byproduct material to persons exempt from licensing.

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

Page 2 of 3 Pages

License Number 29-04459-01

CONDITIONS

Amendment No. 25

(continued)

14. 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. 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.

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 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 5 days of the test with the USAE, Region I, Directorate of Regulatory Operations, 631 Park Avenue, King of Prussia, Pennsylvania 19406, describing the equipment involved, the test results, and the corrective action taken.

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.

U. S. ATOMIC ENERGY COMMISSION
PRODUCT MATERIAL LICENSE

Page 3 of 3 Pages

Supplementary Sheet

License Number 29-04459-01

Amendment No. 25

CONDITIONS

(continued)

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 applications dated November 12, 1958, October 26, 1960, October 10, 1962, March 17, 1965, September 24, 1965, October 7, 1965, March 29, 1966, March 24, 1967, May 25, 1967, April 14, 1969 and April 2, 1974; letters dated March 31, 1959 and July 28, 1960 from Herman Altschule; letters dated July 12, 1966, June 13, 1967, and November 22, 1971, signed by Jack Cawley; and letter dated September 29, 1972.

For the U. S. Atomic Energy Commission

Date APR 4 1974

by aterials Branch

Directorate of Licensing
Washington, D. C. 20545

4/24/74