

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

License No. 29-04459-01
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Amendment No. 17

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 representation 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.

Licenses		In accordance with application dated April 14, 1969,
1. Signalite Incorporated		3. License number 29-04459-01 is amended in its entirety to read as follows:
2. 1933 Heck Avenue Neptune, New Jersey 07753		
		4. Expiration date May 31, 1974
		5. Reference No.
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time
A. Krypton 85	A. Gas	A. 8 curies
B. Nickel 63	B. Any	B. 300 millicuries
C. Americium 241	C. Foil (U. S. Radium Type LAB 204-1A)	C. 250 microcuries
D. Cesium 137	D. Any	D. 400 millicuries
E. Cesium 137	E. Sealed sources (Fabricated by Tracerlab)	E. 200 microcuries
F. Promethium 147	F. Sealed Sources (Glass tubes coated with radioactive phosphor and sealed with white reflective paint and plastic)	F. 34 curies No single source to exceed 7 millicuries
G. Hydrogen 3	G. Paint applied to glass envelopes	G. 6 curies
H. Hydrogen 3	H. Any	H. 14 curies

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Supplementary Sheet

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(continued)

CONDITIONS

13. A(2) Notwithstanding the periodic leak test required by the preceding paragraph, any licensed sealed source containing byproduct material is exempted from periodic leak tests provided the quantity of byproduct material contained in the source does not exceed ten times the quantity specified for the byproduct material in Column II, Schedule A, Section 31.100, 10 CFR 31.
- 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 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 such report shall also be sent to the Director, Region I, Division of Compliance, USAEC, 970 Broad Street, Newark, New Jersey, 07102.
- 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.

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14. Pursuant to Section 32.14, 10 CFR 32, the licensee is authorized to distribute glow lamps, each containing not more than 10 microcuries of Hydrogen 3, to persons exempt from the requirements of a license pursuant to Section 30.15, 10 CFR 30. This authorization shall expire on July 17, 1969.
15. The licensee is authorized to distribute spark gap and electronic tubes containing not more than 5 microcuries of Krypton 85 or Cesium 137 or 0.2 microcurie of Nickel 63 per tube for use under the general license of Section 31.3(b), 10 CFR 31. The distribution of tubes as generally licensed items shall be subject to the following conditions:
 - A. Each tube, tube package, or an accompanying packing slip with each tube shall contain a statement of the radioisotope present, amount in microcuries per tube, and authority for distribution to persons generally licensed pursuant to Section 31.3(b), 10 CFR 31.
 - B. Each tube, or tube package, containing in excess of a total of 0.1 microcurie of Krypton 85 or 1 microcurie of Nickel 63 or Cesium 137 shall exhibit a label containing the radiation symbol and the words, "CAUTION (OR DANGER) RADIOACTIVE MATERIALS."
 - C. This authorization shall expire on July 17, 1969.
16. 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, and April 14, 1969; letters dated July 28, 1960, March 31, 1959 from Herman Altschule; and letters dated July 12, 1966 and June 13, 1967, signed by Jack Cawley.

For the U. S. Atomic Energy Commission

Robert L. Anderson

Isotopes Branch

Division of Materials Licensing
Washington, D. C. 20545

Date MAY 1969

by

RAB
ppd
REB/jc