

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer by product, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). 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 Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		3. License number	29-01022-14
1. Department of the Army U. S. Army Communications Electronics Command	2. AM SEL-SF Ft. Monmouth, New Jersey 07703-5024	4. Expiration date	August 31, 1992
		5. Docket or Reference No.	030-29741, 29-01022-08 & -11, SNM-1327, 1896, 1900, SMB1300, SUB1150

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Cobalt 60	A.	A. [ ]
B. Cesium 137	B.	b. [ ]
C. Strontium 90	C.	C. [ ]
D. Strontium 90	D. Sealed Sources (ECOM Dwg No. SM-B-509048)	D. 45 millicuries (not to exceed 150 microcuries per source)
E. Strontium 90	E.	E. [ ]
F. Strontium 90	F. Sealed Source (3M Dwg No. 12-1921-0474-8)	F. 18 millicuries (not to exceed 36 microcuries per source)
G. Plutonium 239	G. Solid form (Electroplated metal)	G. 0.0115 grams (not to exceed 23 micrograms (1.4 microcurie) per set)
H. Plutonium 239	H. Solid form (Polyvinyl butyral resin)	H. 0.246 gram (not to exceed 819 microgram (50.3 microcurie) per set)

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2

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Ex 2  
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6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Cobalt 60	A.	A.
B. Cesium 137	B.	B.
C. Strontium 90	C.	C.
D. Strontium 90	D. Sealed Sources (ECOM Dwg No. SM-B-509048)	D. 45 millicuries (not to exceed 150 microcuries per source)
E. Strontium 90	E.	E.
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G. Plutonim 239	G. Solid form (Electroplated metal)	G. 0.0115 grams (not to exceed 23 micrograms (1.4 microcurie) per set)
H. <u>Plutonim 239</u>	H. Solid form (Polyvinyl butyral resin)	H. 0.246 gram (not to exceed 819 microgram (50.3 microcurie) per set)

*EX 2*

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number:

29-01022-11

Docket or Reference number

030-29741, 29-01022-08, 29-01022-11,

SNM-1327, 1898, 1900, SNET300 & SUB1150

(6., 7. & 8. continued)

6. Byproduct, source, and/or special nuclear material

7. Chemical and/or physical form

8. Maximum amount that licensee may possess at any one time under this license

I. Cobalt 60

I. [ ]

I. [ ]

J. Plutonium 239

J. Eberline Instrument Corp. Model CS-1

J. 1 gram (not to exceed 0.163 nanogram (10 nanocuries) per source)

K. Thorium 230

K. Eberline Instrument Corp. Model CS-12

K. 1 milligram (not to exceed 0.98 micrograms (20 nanocuries) per source)

L. Thorium 232

L. Nuclear Research Corp. Model No. B-1093

L. 2.76 kilogram (not to exceed 2.7 grams (300 nanocuries) per source)

M. Krypton 85

M. Sealed Sources (USAEA Dwg. No. B124-12-8)

M. 120 curies (not to exceed 6 millicuries per source)

N. Americium 241

N. Sealed Sources (Amersham Radiochemical Center, Amersham Code 2084)

N. 50 millicuries (not to exceed 10 millicuries each)

O. Thorium 232

O. Solid form (Thorium fluoride coating on optical system)

O. 40 kilogram (not to exceed 2 grams (0.218 microcurie) per optical system)

9. Authorized use

- A. through N. Calibration and operational check of radiation detection instrumentation.
- O. Optical coating on thermal imaging devices.

CONDITIONS

- 10. Licensed material may be used at the licensee's facilities Ft. Monmouth, New Jersey and at temporary job sites of the licensee anywhere in the United States.
- 11. Licensed material shall be used by, or under the supervision of, Barry J. Silber, Joseph M. Santarsiero, or Steven A. Horne.
- 12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.

Ex 2

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

29-01022-14

Docket or Reference number

030-29741, 29-01022-08, 29-01022-11,

SNM-1327, 1896, 1900, SMB1300 &amp; SUB1150

(Continued)

## CONDITIONS

13. A(1) Any sealed source(s) or detector cell(s) specified in Item(s) 7.A. through F., H., I. and N. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source or detector cell received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source or detector cell is exempt from such leak tests when the source or detector cell contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. Any sealed source or detector cell in storage and not being used need not be tested. When the source or detector cell is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source or detector cell shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety and Safeguards Branch, 631 Park Avenue, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".

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License number	29-01022-14
Docket or Reference number	030-29741, 29-01022-08, 29-01022-11,
	SNM-1327, 1896, 1900, SNB1300 & SUB1150

(Continued)

CONDITIONS

16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated May 7, 1986

For the U.S. Nuclear Regulatory Commission  
Original Signed By:  
Edwin A. Wurtz

Date 14 SEP 1987

By Nuclear Materials Safety and  
Safeguards Branch, Region I  
King of Prussia, Pennsylvania 19406