

MATERIALS LICENSE

Amendment No 02

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 byproduct, 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.

<p style="text-align: center;">Licensee</p> <p>1. Department of the Army U. S. Army Communications Electronics Command</p> <p>2. AM SEL-SF Ft. Monmouth, New Jersey 07703-5024</p>	<p>In accordance with letter dated <b>October 17, 1988,</b> 3. License number 29-01022-14 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date August 31, 1992</p> <hr/> <p>5. Docket or Reference No. 030-29741</p>
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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. Cesium 137	C.	C. ]
D. Strontium 90	D.	D. ]
E. Strontium 90	E. Sealed Sources (ECOM Dwg No. SM-B-509048)	E. exceed 150 microcuries per source)
F. Strontium 90	F.	F. ]
G. Stontium 90	G. Sealed Source (3M Dwg No. 12-1921-0474-8)	G. 18 millicuries (not to exceed 36 microcuries per source)
H. <del>Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2</del>	H. Electroplated source	H. 0.0115 grams (not to exceed 23 micrograms (1.4 microcurie) per set)
I. <del>Plutonium 239</del>	I. Deposited on acrylic plastic disk	I. 0.246 gram [not to exceed 819 microgram (50.3 microcurie) per set] LL/9

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

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(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

J. Cobalt 60

J.

J.

K. Plutonium 239

K. Eberline Instrument Corp. Model CS-1

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

L. Thorium 230

L. Eberline Instrument Corp. Model CS-12

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

M. Thorium 232

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

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

N. Krypton 85

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

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

O. Americium 241

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

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

P. Thorium 232

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

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

9. Authorized use

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

CONDITIONS

- 10. Licensed material may be used at the licensee's facilities, Ft. Monmouth, New Jersey, and at Department of Defense installations anywhere in the United States.
- 11. A. Licensed material shall be used by or under the supervision of individuals who have completed the training described in application dated May 7, 1986, with enclosures. Records of individuals who have satisfactorily completed the training program shall be maintained by the Radiation Safety Officer.
- B. At least one individual qualified under Condition 11.A. shall be present whenever licensed material is being used.
- C. The Radiation Safety Officer for this license is Barry J. Silber.
- 12. Sealed sources containing licensed material shall not be opened by the licensee.

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## CONDITIONS

13. A(1) Any sealed source(s) or detector cell(s) specified in Item(s) 7.A. through G., J. and O. 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 Branch, 475 Allendale Road, 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 any sealed source specified in Items 7.A. through 7.J., and 7.N and O. 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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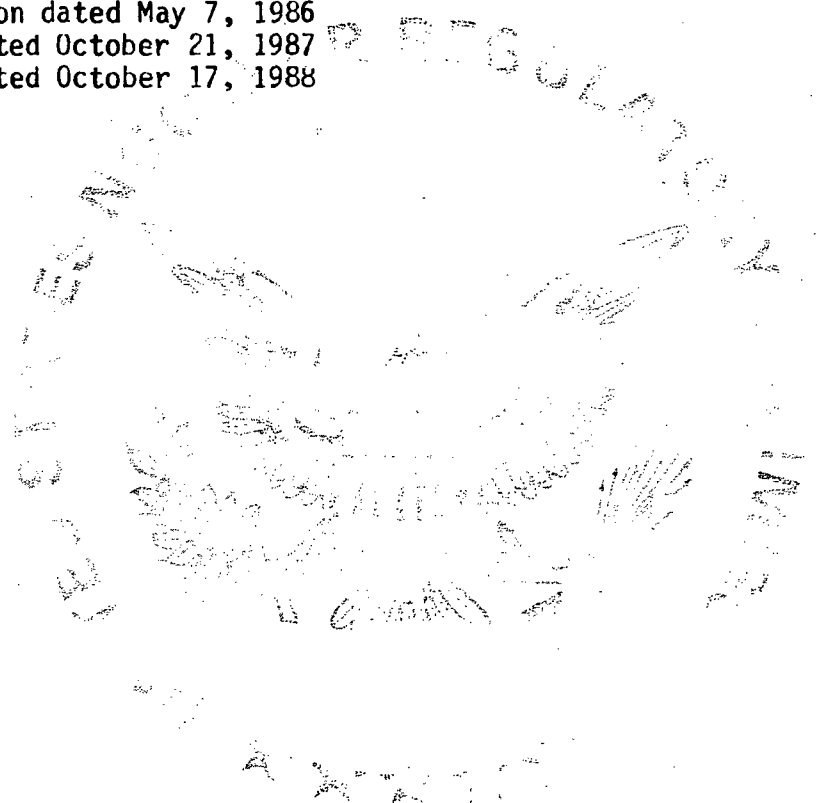
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**CONDITIONS**

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
- B. Letter dated October 21, 1987
- C. Letter dated October 17, 1988



Date 14 DEC 1988

For the U.S. Nuclear Regulatory Commission

Original Signed By:

By Francis M. Costello

Nuclear Materials Safety Branch

Region I

King of Prussia, Pennsylvania 19406