

## CORRECTED COPY

## 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, 36, 39, 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>Licensee</p> <p>1. U.S. Army Communication-Electronics Command</p> <p>2. AMSEL-SF<br/>Fort Monmouth, New Jersey 07703-5024</p>   | <p>In accordance with the letter dated September 10, 1997,</p> <p>3. License number 29-01022-14 is amended in its entirety to read as follows:</p> <p>4. Expiration date October 31, 2003</p> <p>5. Docket No. 030-29741<br/>Reference No.</p> |   |
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cobalt 60</p> <p>B. Cobalt 60</p> <p>C. Cobalt 60</p> <p>D. Krypton 85</p> <p>E. Strontium 90</p> <p>F. Strontium 90</p> | <p>7. Chemical and/or physical form</p> <p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p> <p>F. Sealed sources (ECOM Dwg. No. SM-B-509048)</p>   | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A.</p> <p>B.</p> <p>C.</p> <p>D.</p> <p>E.</p> <p>F. Not to exceed 150 microcuries per source and 45 millicuries total</p> |

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

FOIA 2006-0238

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

G. Strontium 90

G.

G.

H. Strontium 90

H. Sealed sources (3M Dwg. No  
12-1921-0474-8)H. Not to exceed 36 microcuries  
per source and 18 millicuries  
total

I. Cesium 137

I.

I.

J. Cesium 137

J.

J.

K. Plutonium 239

K. Electroplated sources  
(Eberline Instrument Corp.,  
Model 594-1)K. Not to exceed 23 micrograms  
(1.4 microcuries) per set and  
0.0115 grams total

L. Americium 241

L. Sealed sources (Amersham  
Radiochemical Center,  
Amersham Code 2084)L. Not to exceed 10 millicuries per  
source and 50 millicuries total

M. Americium 241

M. Sealed sources (Amersham  
Model AMR 8122)M. Not to exceed 1 microcurie per  
source and 100 microcuries  
total

N. Americium 241

N. Sealed sources (Amersham  
Model AMRB 8152)N. Not to exceed 10 microcuries  
per source and 50 microcuries  
total

O. Americium 241

O. Sealed sources (Amersham  
Model AMRB 1659)O. Not to exceed 20 microcuries  
per source and 100 microcuries  
total

P. Thorium 230

P. Electroplated source (Eberline  
Instrument Corp., Model No.  
CS-12)P. Not to exceed 0.98 micrograms  
(20 nanocuries) per source and  
1 milligram total

Q. Thorium 232

Q. Metal foils

Q. Not to exceed 2.7 grams (300  
nanocuries) per source and  
4.05 kilograms total

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

R. Plutonium 239

S. Thorium 232

T. Cesium 137

U. Cesium 137

V. Hydrogen 3

W. Hydrogen 3

7. Chemical and/or physical form

R. Electroplated sources  
(Eberline Instrument Corp.,  
Model No. CS-1)S. Solid (Thorium Fluoride  
coating on optical systems)

T.

U.

V. Tritiated paint in Lensatic  
Compasses (NSN 6605-00-  
846-7618)W. Sealed light sources in  
Lensatic Compasses (NSN-  
6605-00-151-5337)8. Maximum amount that licensee may  
possess at any one time under this  
licenseR. Not to exceed 163 nanograms  
(10 nanocuries) per source and  
1 gram totalS. Not to exceed 3 grams (0.330  
microcuries) per optical system  
and 40 kilograms total

T.

U.

V. 120 millicuries per compass  
and 480 curies totalW. 190 millicuries per compass  
and 5700 curies total

9. Authorized use:

A. through R. Calibration and operational checking of radiation detection instrumentation.

S. Optical coating on thermal imaging devices.

T. For use in FEMA Model CDV-794 calibrators for instrument calibrations.

U. For use in FEMA Model CDV-790 calibrators for instrument calibrations.

V. and W. For Possession, storage, and distribution to any U.S. Department of Defense elements and reserve components including the U.S. Army, U.S. Navy, U.S. Marine Corps, U.S. Air Force, Defense Supply Agency, the National Guard and the Air National Guard.

**CONDITIONS**

10. Licensed material may be used only at the licensee's facilities located at Fort Monmouth, New Jersey, and at Department of Defense installations anywhere in the United States.

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11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have completed the training described in application dated July 20, 1992 and letter dated May 1, 1998, with enclosures.
- B. The Radiation Safety Officer for this license is Joseph M. Santarsiero.
12. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. 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, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Director, Division of Nuclear Materials Safety, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

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- G. The licensee is authorized to collect leak test samples for analysis by licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
14. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. 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 July 20, 1992
  - B. Letter dated June 15, 1993
  - C. Letter dated April 6, 1994
  - D. Letter dated February 28, 1997
  - E. Letter dated July 30, 1997
  - F. Letter dated August 27, 1997, with attachment
  - G. Letter dated September 10, 1997
  - H. Letter dated May 1, 1998
  - I. Letter dated July 2, 1998

For the U.S. Nuclear Regulatory Commission

**Original signed by Judith A. Joustra**Date July 20, 1998

By

Judith A. Joustra  
Nuclear Materials Safety Branch 3  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

July 20, 1998

Docket No. 030-29741  
Control No. 125002

License No. 29-01022-14

Joseph M. Santarsiero  
Acting Director, Safety Risk Management  
U.S. Army Communication-Electronics Command  
AMSEL-SL  
Fort Monmouth, NJ 07703-5024

Dear Mr. Santarsiero:

Enclosed is the Corrected Copy of Amendment No. 16 for License No. 29-01022-14. In accordance with the telephone call on July 20, 1998 from Mr. Silber of your staff, Items No. 8.V, and 8.W have been changed to reflect the correct total activity.

We apologize for any inconvenience this error may have caused.

Sincerely,

*Original signed by Judith A. Joustra*

John R. McGrath, Acting Chief  
Nuclear Materials Safety Branch 3  
Division of Nuclear Materials Safety

Enclosure:  
Corrected Copy of Amendment No. 16

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J. Santarsiero  
U.S. Army Communication-Electronics Command

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|--------|---------------------|---|---------------------|--|---------|--|---------|
| OFFICE | DNMS/RI             | N | DNMS/RI             |  |         |  |         |
| NAME   | JJoustra <i>JJS</i> |   | JMcGrath <i>JJS</i> |  |         |  |         |
| DATE   | 07/20/98            |   | 07/20/98 <i>for</i> |  | 07/ /98 |  | 07/ /98 |

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