



DEPARTMENT OF THE ARMY

HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND
AND FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY

030-29741

REPLY TO
ATTENTION OF

AMSEL-SF-RIR (385-11m)

21 October 1987

MEMORANDUM THRU: ~~Commander, U.S. Army Materiel Command, ATTN: AMCSF-P, 5001
Eisenhower Avenue Alexandria, VA 22304-0001~~

Class 12 Nov 87

FOR: Nuclear Materials Safety Section, Division of Radiation Safety and Safeguards, U.S. Nuclear Regulatory Commission, Region I, 631 Park Avenue, King of Prussia, PA 19406

SUBJECT: U.S. Nuclear Regulatory Commission (NRC) License Number 29-01022-14

1. Reference FONECON, 15 October 1987, between Mr. Joseph Furia, CECOM Safety Office and Dr. John Glenn, NRC, subject as above.

2. As discussed in reference FONECON, request your office review the following comments and correct/amend the subject license as necessary:

a. Item 6B should read: "1690 curies (not to exceed 130 Ci each)". Individual source activity is not indicated in the issued license.

b. Item 10: Change to "Licensed material may be used at the licensee's facilities, Fort Monmouth, New Jersey and Department of Defense installations where the Nuclear Regulatory Commission maintains jurisdiction." This is the same condition as used in previous licenses for isotopes, replaced now by subject license.

c. Item 11: Change to "Licensed material shall be used by or under the supervision of Department of the Army military and/or civilian personnel who have completed the training/qualification requirements described in application dated 7 May 1986." As currently written, the condition is too restrictive and would necessitate use of the licensable materials under the direct supervision of Messrs. Silber, Santarsiero or Horne.

d. Item 12: Change to "Sealed sources containing licensed material shall not be opened." As currently written, the condition restricts the Department of the Army from removing, evaluating and/or disposing of damaged or potentially damaged sources.

e. Item 13A(1): Change covered sources to read ". . . Items 7A through 7F and 7I and 7N . . ." Source item 7H is an alpha source set that is leak tested at three month intervals.

f. Item 14: Due to the type and activity of radioactive material utilized, this requirement should be specific only for items 7A through 7I and 7N. Items 7J through 7M and 7O are operational check sources and/or optical devices which number in the thousands, contain low quantities of radioactive material and present a negligible radiation hazard.

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RECEIVED-REGION I

FILE EXEMPT

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Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2
FOIA-2006-0238

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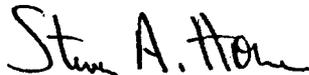
AMSEL-SF-RIR

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To inventory these items on any frequency basis would prove to be an impractical and virtually impossible task. This command presently meets physical inventory requirements for items 7A through 7I and 7N. These sources are currently required to have quarterly and/or semi-annual leak testing, as applicable. By virtue of performing the leak test and maintaining the data, the physical inventory requirement is fulfilled. Based upon the above, request Item 14 be changed to read: "The licensee shall conduct a physical inventory of items 7A through 7I and 7N every six months. The quarterly and/or semiannual leak testing of these sources, as indicated in application dated 7 May 1986, may serve as fulfilling the physical inventory requirement."

3. For your convenience, a copy of the issued subject NRC license is provided.
4. Point of contact, this command, is Mr. Joseph Furia, AV 995-4427 or commercial (201) 544-4427.

FOR THE COMMANDER:



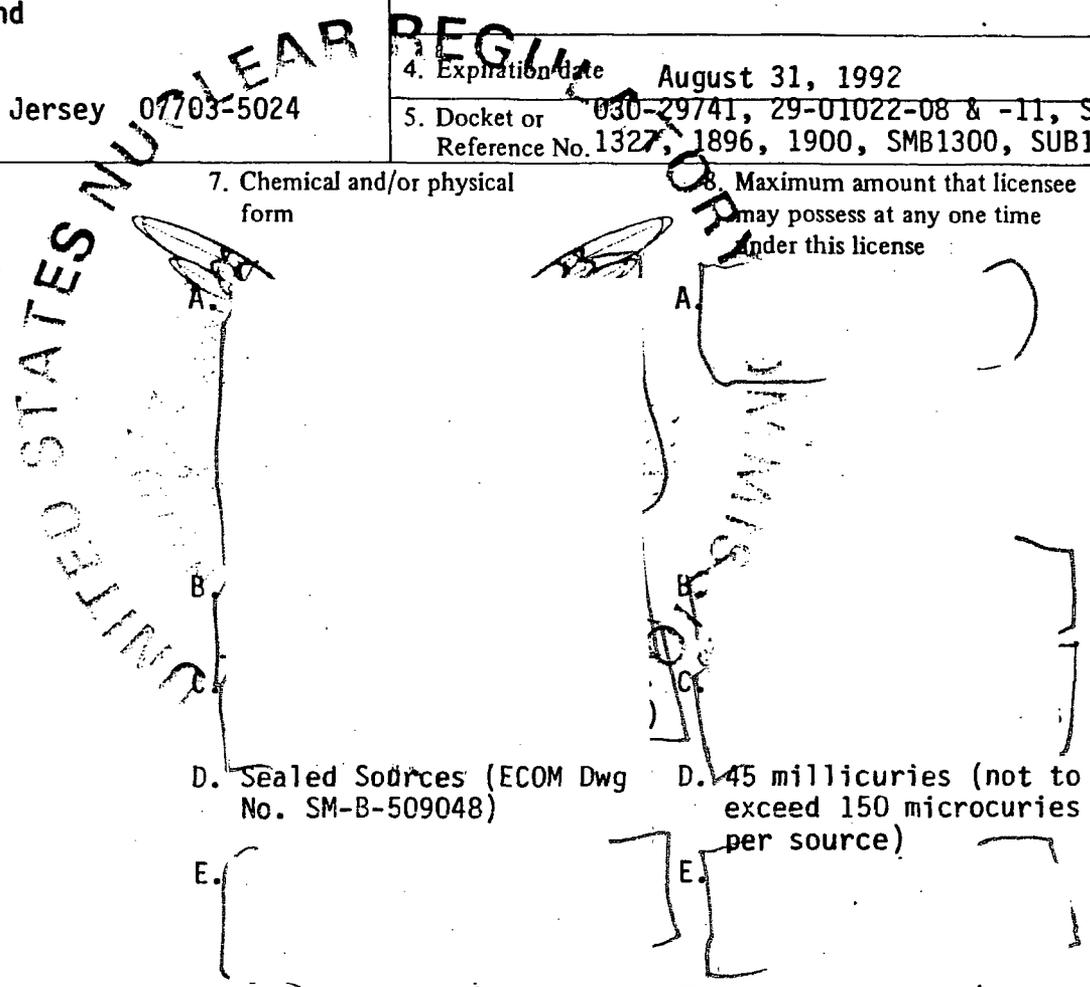
STEVEN A. HORNE
Chief, Safety Office

Encl

MATERIALS LICENSE

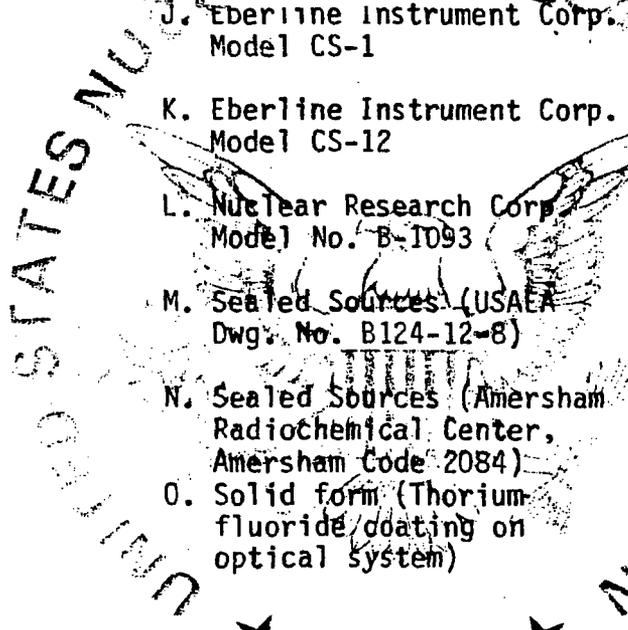
Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10 Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer 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 subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to all conditions specified below.

Licensee		3. License number	29-01022-14
1. Department of the Army U. S. Army Communications Electronics Command		4. Expiration date	August 31, 1992
2. AM SEL-SF Ft. Monmouth, New Jersey 07703-5024		5. Docket or Reference No.	030-29741, 29-01022-08 & -11, S 1327, 1896, 1900, SMB1300, SUB1
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. []	
B. Cesium 137		B. []	
C. Strontium 90		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. Stontium 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. Plutonim 239	H. Solid form (Polyvinyl butyral resin)	H. 0.246 gram (not to 819 microgram (50.3 microcurie) per set)	
<p><i>87092104834 EX 2 portions</i></p> <p align="right">108106</p>			



(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)



EX 2

EX 2

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.

**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 & 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".

**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 & SUB115

(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

Date 14 SEP 1987

By Edwin A. Wurtz
Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406

