

VOID SHEET

TO: License Fee Management Branch
FROM: REGION I
SUBJECT: VOIDED APPLICATION

Control Number: 111106
Applicant: ARMY, DEPARTMENT OF THE
Date Voided: 17 AUGUST 1989
Reason for Void: AMENDMENT NOT NEEDED. CORRECTED
COPY ISSUED.

Emw
Signature

8-17-89
Date

Attachment:
Official Record Copy of
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

Refund Authorized and processed

No Refund Due

Fee Exempt or Fee Not Required

Comments: _____

Log completed

Processed by: _____

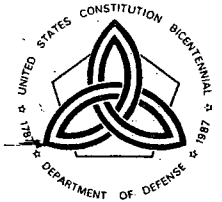
LL 11

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

OFFICIAL RECORD COPY ML 10



DEPARTMENT OF THE ARMY
HEADQUARTERS, U. S. ARMY MATERIEL COMMAND
5001 EISENHOWER AVENUE, ALEXANDRIA, VA 22333-0001



July 10, 1989

Safety Office

030-29741

U.S. Nuclear Regulatory Commission
Region I
Materials Section B
475 Allendale Road
King of Prussia, PA 19406

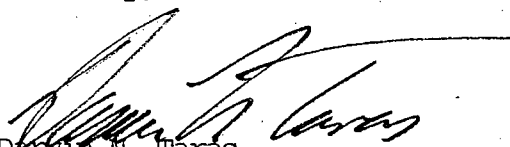
Reference: AMCSF-P/89-0075

Gentlemen:

The U.S. Army Communications-Electronics Command requests amendment to NRC license 29-01022-14. Enclosure 1, plutonium-239 sources, were consolidated into the CECOM license number 29-01022-14 (enclosure 2). During CECOM's review of their NRC licenses, their calculations (enclosure 3) indicate a source limit of about 163 nanograms per source. Please amend the license to show this limit.

Please acknowledge receipt on the enclosed DA Form 209, Delay, Referral, or Follow-Up Notice. If you require any further information, please contact Ms. Patricia A. Elker, 202 274-9340.

Sincerely,


Darwin N. Taras
Chief
Safety Office

Enclosures

Copies Furnished:
HQDA (SGPS-PSP-E)
Cdr, CECOM, ATTN: AMSEL-SF
Dir, USAMC Field Safety Activity, ATTN: AMXOS

FEE EXEMPT

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Voided
8/17/89
JUL 28 1989

**U. S. NUCLEAR REGULATORY COMMISSION
MATERIALS LICENSE**

Page 1 of 2 Page

Amendment No. 02

as Copy Is For Your Files

Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-433) and in reliance on the Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 36, 40 and 70, and in reliance on the representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to possess, use, 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); and to import such byproduct and source material. 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 and hereafter in effect and to any conditions specified below.

<p align="center">Licensee</p> <p>1. U. S. Department of the Army</p> <p>2. Fort Monmouth, New Jersey 07703</p>		<p>In accordance with application dated April 24, 1978,</p> <p>3. License number SNM-1327 is amended in its entirety to read as follows:</p>	
		<p>4. Expiration date June 30, 1983</p>	
		<p>5. Docket or Reference No. 70-1355</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Plutonium 239</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed source (Model CS-1, Eberline Instrument Corp.)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 1 gram possession limit (no single source to exceed 10 nanocuries)</p>	
<p>9. Authorized use</p> <p>A. To be used with AN/PDR-60 alpha detection instruments.</p>			

CONDITIONS

10. Licensed material shall be used only at any Army or Department of Defense facility.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."

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Encl 4

MATERIALS LICENSE

Supplementary Sheet

License Number SNM-1327Docket or
Reference No. 70-1355

Amendment No. 02

CONDITIONS

(continued)

12. Licensed material shall be used by, or under the supervision of, individuals designated by the Department of the Army Communications and Electronics Materiel Readiness Command (CERCOM).

13. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Section 71.5, Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material For Transport."

14. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in applications dated October 13, 1972 and April 24, 1978.

Date JUN 12 1978

For the U. S. Nuclear Regulatory Commission

by Radioisotopes Licensing BranchDivision of Materials and Fuel Cycle
Facility Licensing
Washington, D. C. 20555Material Safety
Washington, D.C. 20555

MATERIALS LICENSE

Amendment No. 03

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.

Licensee

1. Department of the Army
U. S. Army Communications
Electronics Command

2. AM SEL-SF
Ft. Monmouth, New Jersey 07703-5024

In accordance with letter dated
November 18, 1988,

3. License number 29-01022-14 is amended
in its entirety to read as follows:

4. Expiration date August 31, 1992

5. Docket or
Reference No. 030-29741

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

A. Cobalt 60

7. Chemical and/or physical
form

A.

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

B. Cesium 137

B.

C. Cesium 137

C.

D. Strontium 90

D.

E. Strontium 90

E. Sealed Sources (ECOM Dwg.
No. SM-B-509048)

E. 45 millicuries (not to
exceed 150 microcuries
per source)

F. Strontium 90

F.

G. Strontium 90

G. Sealed Source (3M Dwg.
No. 12-1921-04/4-8)

G. 18 millicuries (not to
exceed 36 microcuries
per source)

H. Plutonium 239

H. Electroplated source

H. 0.0115 grams (not to
exceed 23 micrograms
(1.4 microcurie) per
set)

I. Plutonium 239

I. Deposited on acrylic
plastic disk

I. 0.246 gram [not to
exceed 819 microgram
(50.3 microcurie)
per set]

8902070308

4pp EX-2 follows

Encl 2

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

29-01022-14

Docket or Reference number

030-29741

Amendment No. 03

(6., 7. & 8. continued)

6. Byproduct, source, and/or
special nuclear material7. Chemical and/or physical
form8. 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-1K. 1 gram (not to exceed
0.163 nanogram (10
nanocuries) per source)

L. Thorium 230

L. Eberline Instrument Corp.
Model CS-12L. 1 milligram (not to
0.98 micrograms (20
nanocuries) per source)

M. Thorium 232

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

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

29-01022-14

Docket or Reference number

030-29741

Amendment No. 03

(Continued)

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 1, ATTN: Chief, Nuclear Materials Safety Branch, 475 Alleghene 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".

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

29-01022-14

Docket or Reference number

030-29/41

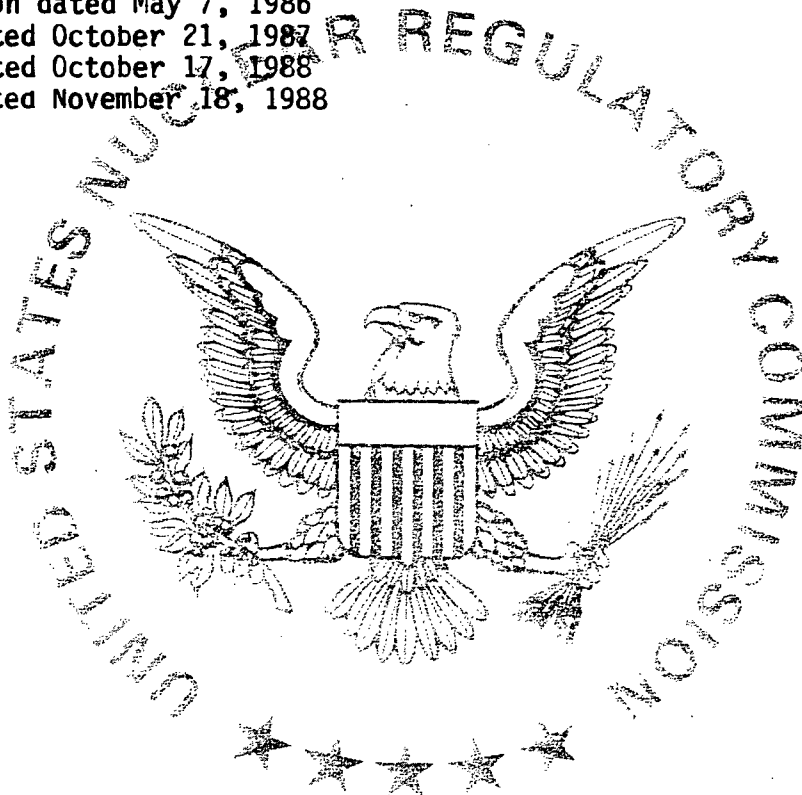
Amendment No. 03

(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
- B. Letter dated October 21, 1987
- C. Letter dated October 17, 1988
- D. Letter dated November 18, 1988



For the U.S. Nuclear Regulatory Commission

Date 11 JAN 1989

By

Francis M. CostelloNuclear Materials Safety Branch
Region I

King of Prussia, Pennsylvania 19406

CALCULATIONS

From License 29-01022-14

Paragraph 6.H.

$$\text{Pu-239} \quad 1.4 \text{ } \mu\text{Ci} / 23 \text{ } \mu\text{g} = 0.0609 \text{ Ci/g}$$

Paragraph 6.I.

$$\text{Pu-239} \quad 50.3 \text{ } \mu\text{Ci} / 819 \text{ } \mu\text{g} = 0.0616 \text{ Ci/g}$$

These values are close to the specific activity of Pu-239 of 0.06 Ci/g or 60 mCi/g.

However, for

Paragraph 6.K.

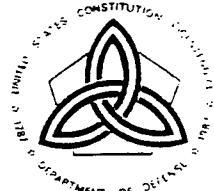
$$\text{Pu-239} \quad 10 \text{ nCi} / 0.163 \text{ ng} = 61.3497 \text{ Ci/g}$$

We feel the correct answer is

$$\text{Pu-239} \quad 10 \text{ nCi} / \underline{163 \text{ ng}} = 0.0614 \text{ Ci/g}$$



DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND
AND FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5000



REPLY TO
ATTENTION OF

AMSEL-SF-RER (385-11m)

11 May 1989

MEMORANDUM THRU Commander, U.S. Army Materiel Command,
ATTN: AMCSF-P, 5001 Eisenhower Avenue,
Alexandria, VA 22333-0001

FOR U.S. Nuclear Regulatory Commission, Region I, Materials
Section B, 475 Allendale Road, King of Prussia, PA 19406

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

1. Reference:

a. U.S. Nuclear Regulatory Commission (NRC) License 29-01022-14, expiration date 31 August 1992, enclosure 1.

b. NRC License SNM-1327, terminated, enclosure 2.

2. Please confirm the nanogram per source limit for the Plutonium 239 Special Nuclear Material authorized in paragraph 6.K. of reference 1a license.

3. A limit of 0.163 nanogram per source was inserted by the NRC when reference 1b was consolidated with our other commodity licenses into reference 1a. During a review of our NRC licenses we determined this limit was calculated by the NRC incorrectly. Our calculations, provided as enclosure 3, indicate a source limit of about 163 nanograms per source.

4. Our point of contact is Captain Brett Armstrong, (201) 544-3112.

5. CECOM Bottom Line: THE SOLDIER.

3 Encls
as

STEVEN A. HORNE
Chief, Safety Office

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