

MATERIALS LICENSE

Amendment No. 35

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, 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.

Licensee

- 1. Department of the Army
U. S. Army Communications -
Electronic Command
- 2. Fort Monmouth, New Jersey 07703-5000

In accordance with letter dated November 13, 1990,
3. License number 29-01022-06 is amended in its entirety to read as follows:

4. Expiration date June 30, 1992

5. Docket or Reference No. 030-05248
SMB-1183

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. Any byproduct material with Atomic Numbers 1-83

A. Any

A. Not to exceed 1 curie per radionuclide and 10 curies total

B. Cesium 137

B. Sealed sources

B. [] Ex 2

C. Cobalt 60

C. Sealed sources

D. 5 curies

D. Strontium 90

D. Sealed sources

E. 30 curies

E. Hydrogen 3

E. Accelerator targets

F. 5 kilograms

F. Uranium (Natural or Depleted)

F. Any

G. 10 kilograms

G. Thorium (Natural)

G. Any

H. 1 millicurie

H. Americium 241

H. Any

9. Authorized use

A. through H. Research and development as defined in Section 30.4 of 10 CFR Part 30, including use in training and instrument calibrations.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities at U. S. Army Communications - Electronics Command (CECOM) and at Fort Monmouth, Fort Monmouth New Jersey.

11. A. Licensed material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Committee.

B. The Radiation Safety Officer for this license is Joseph Santarsiero.

12. The licensee shall not use licensed material in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.

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

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number	29-01022-06
Docket or Reference number	030-05248; SMB-1183
Amendment No. 35	

(Continued)

CONDITIONS

13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
14.
 - A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed 3 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 3 months.
 - C. In the absence of a certificate from a transferor indicating that a 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 krypton 85; 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. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. 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 shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The 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.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

29-01022-06

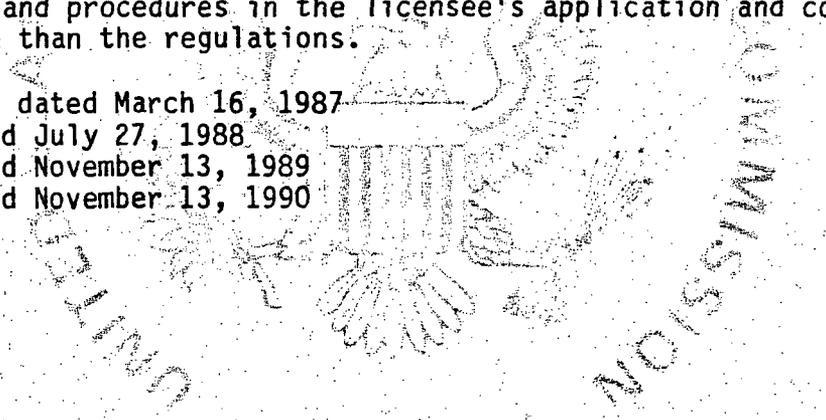
Docket or Reference number

030-05248; SMB-1183

Amendment No. 35

(14. Continued) **CONDITIONS**

- G. The licensee is authorized to collect leak test samples for analysis by the 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.
- 15. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."
- 16. The licensee shall not acquire licensed material in a sealed source or in a device that contains a sealed source unless the source or device has been registered with the Nuclear Regulatory Commission under 10 CFR 30.32(g) or with an Agreement State.
- 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 March 16, 1987
 - B. Letter dated July 27, 1988
 - C. Letter dated November 13, 1989
 - D. Letter dated November 13, 1990



Date JAN 29 1991

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

JAN 29 1991

License No. 29-01022-06
Docket No. 030-05248
Control No. 113818

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

Gentlemen:

Please find enclosed an amendment to your NRC Material License.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the Region I Material Licensing Section, (215) 337-5093, so that we can provide appropriate corrections and answers.

Please be advised that you must conduct your program involving licensed radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, please note the items in the enclosed, "Requirements for Materials Licensees."

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, the NRC expects licensees to pay meticulous attention to detail and to achieve the high standard of compliance which the NRC expects of its licensees.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program safely and in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in prompt and vigorous enforcement action against you. This could include issuance of a notice of violation, or in case of serious violations, an imposition of a civil penalty or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

OFFICIAL RECORD COPY

ML 29-01022-06/LTR - 0001.0.0
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We wish you success in operating a safe and effective licensed program.

Sincerely,

Original Signed By:
Francis M. Costello

Francis M. Costello
Nuclear Materials Safety Section B
Division of Radiation Safety
and Safeguards

Enclosures:

1. Amendment No. 35
2. Requirements for Materials Licensees

FMC
DRSS:RI
Costello/sl

1/24/91

050-0504
21-0022-06

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

November 13, 1990



Safety Office

U.S. Nuclear Regulatory Commission
Region I
ATTN: Materials Licensing Branch
475 Allendale Road
King of Prussia, Pennsylvania 19406

Reference: AMCSF-P/90-0212/0214

Gentlemen:

Forwarded are six copies of the U.S. Army Communications-Electronics Command's request to amend licenses 29-01022-06, 29-01022-07 and 29-01022-10. Army staffing is complete, and we recommend approval of the request. The amendment requests quarterly exchange intervals for thermoluminescent dosimeters in lieu of monthly exchange intervals.

Please acknowledge receipt of correspondence on the enclosed DA Form 209, Delay Referral or Follow-Up Notice. If you have any questions, please contact the undersigned at 703 274-5476.

Sincerely,

Patricia A. Elker
Acting Chief
Safety Office

Enclosures

Copies Furnished:
HQDA (SGPS-PSP-E) w/encl
Commander, CECOM, ATTN: AMSEL-SF wo/encl
Director, USAMC Field Safety Activity, ATTN: AMXOS

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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)

29 August 1990

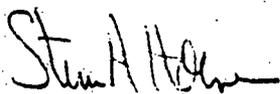
MEMORANDUM THRU Commander, U.S. Army Material Command, ATTN:
AMCSF-P, 5001 Eisenhower Avenue, Alexandria, VA
22333-0001

FOR U.S. Nuclear Regulatory Commission, Region 1, Materials
Section B, 475 Allendale Road, King of Prussia, PA 19407

SUBJECT: Amendment of U.S. Nuclear Regulatory Commission (NRC)
Licenses

1. Reference NRC Radioactive Material License Numbers 29-01022-06; 29-01022-07; and 29-01022-10.
2. Request referenced NRC Licenses be amended to provide for the quarterly exchange of personnel dosimetry, i.e. thermoluminescent dosimeters, TLD's, in lieu of the current monthly exchange.
3. NRC License No. 29-01022-06 (see enclosure 1) is issued for the use of radioactive material in research and development projects. Review of personnel radiation exposure records indicate that doses have been historically low.
4. NRC License No. 29-01022-07 (see enclosure 2) is issued for the storage and/or use of three sealed radiation sources housed in a underground vault; two utilizing approximately 900 Curies of Cobalt-60 and one utilizing approximately 400 Curies of Cesium-137. Upon entering the vault area, the Standard Operating Procedure requires that the operator carry a portable survey meter and wear a pocket dosimeter. Personnel radiation exposures have been below the minimum recordable levels.
5. NRC License No. 29-01022-10 (see enclosure 3) is issued for a 13,000 Curie Cobalt-60 sealed source submerged in a pool and is used for the irradiation of various materials. Ambient radiation levels surrounding the pool are less than twice background.
6. Our point of contact is Mr. Gary Ziola, commercial (201) 544-3112.
7. CECOM Bottom Line: THE SOLDIER.

3 Encls


STEVEN A. HORNE
Chief, Safety Office

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