

OFFICIAL RECORD COPY

## MATERIALS LICENSE

Amendment No. 4

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.

Licensee		In accordance with the letter dated September 25, 1996	
1. Department of the Army U.S. Army National Ground Intelligence Center ATTN: IANG-RFM		3. License Number	45-25134-01
2. 220 7th Street NE  Charlottesville, VA 22902-5396		is amended in its entirety to read as follows:	
		4. Expiration Date	February 28, 2001 (Extended)
		5. Docket or Reference No.	030-32042
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 No. 1-52, inclusive, and 54-84 inclusive.	A. Any	A. Each radionuclide shall not exceed the amount listed in 10 CFR 33.100, Schedule A Col. 1. The sum of the ratios shall not exceed unity.	
B. Hydrogen 3	B. Any	B. 74 TBq (2,000 Ci)	
C. Cobalt 60	C. Sealed Sources	C. 3.7GBq (100 mCi)	
D. Nickel 63	D. Foils, plated or sealed sources	D. 37 GBq (1 Ci)	
E. Krypton 85	E. Sealed Sources	E. 37 GBq (1 Ci)	
F. Strontium 90	F. Sealed Sources	F. 3.7 GBq (100 mCi)	
G. Cesium 137	G. Sealed Sources	G. 3.7 GBq (100 mCi)	
H. Promethium 147	H. Sealed Sources	H. 37 GBq (1 Ci)	
I. Americium 241	I. Foils, plated or sealed sources	I. 370 MBq (10 mCi)	
J. Special Nuclear Material (uranium 235, thorium 233, and/or plutonium)	J. Sealed Sources, metal or plated metal	J. 50 grams	

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PDR ADOCK 03032042  
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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number 45-25134-01

Docket or Reference Number 030-32042

Amendment No. 4

Continued-

9. Authorized Use:

A. Through K. For receipt, storage, use and/or transfer as follows:

- (a) Research and development as defined in 10 CFR 30.4;
- (b) Laboratory analysis and measurement studies; and
- (c) Calibration of instruments.

CONDITIONS

- 10. Licensed material may be used at Aberdeen Proving Ground, Maryland; U. S. Army Foreign Technology Center, 220 7th Street, N.E., Charlottesville, Virginia and at temporary job sites of the licensee anywhere in the United States.
- 11. The Radiation Protection Officer for the activities authorized by this license is Ralph A. Cardenuto or, in his absence, Rafael P. Corpuz.
- 12. Licensed material shall be used by, or under the supervision of individuals designated by the licensee's radiation protection committee.
- 13. Sealed sources containing licensed material shall not be opened by the licensee.
- 14. A. (1) The source(s) specified in Item 7, shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source 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 is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material;
- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer; and
- 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 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 II, Materials Licensing/Inspection Branch, 101 Marietta Street, N.W., Suite 2900, Atlanta, GA 30323-0199. 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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number 45-25134-01  
Docket or Reference Number 030-32042  
Amendment No. 4

(Continued)

**CONDITIONS**

14. 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.
15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
16. The licensee shall maintain records of information important to safe and effective decommissioning at Aberdeen Proving Ground, Maryland pursuant to the provisions of 10 CFR 30.35(g), 40.36(f) and/or 70.25(g) until this license is terminated by the Commission.
17. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of unsealed licensed material or readily dispersible source material to quantities less than 1000 times the applicable limits in Appendix C of 10 CFR 20, or 100 mCi per the provisions of 10 CFR 30.35(d), 40.36(b) and/or 70.25(d).
18. Except as specifically provide 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 February 1, 1991, and enclosures thereto.
  - B. Letters dated:
    1. February 22, 1991 and enclosure thereto.
    2. October 24, 1991 [Change command and address].
    3. October 4, 1993 [Change command and address].
    4. November 7, 1994 [Change command and address].
    5. September 25, 1996 [Delete possession of source material; Increase instrument calibration frequency to 365 days; and Extension of expiration date in accordance with 10 CFR 30.36].

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

EARL G. WRIGHT

*Earl G. Wright*

BY

Division of Nuclear Materials Safety  
101 Marietta Street, N.W., Suite 2900  
Atlanta, GA 30323-0199

DATE

OCT 09 1996

*[Signature]*  
10/9/96  
N:\MLICENSE\45-25134.A04

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

: (FOR LFMS USE)  
: INFORMATION FROM LTS  
: -----  
:  
: Program Code: 03610  
: Status Code: 0  
: Fee Category: EX 3L 1D 2C  
: Exp. Date: 20010228  
: Fee Comments: 2C NOT SHIELDING  
: Decom Fin Assur Req'd: N  
: .....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ARMY, DEPARTMENT OF THE  
Received Date: 961001  
Docket No: 3032042  
Control No.: 257223  
License No.: 45-25134-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.: \_\_\_\_\_

3. COMMENTS

Signed \_\_\_\_\_  
Date \_\_\_\_\_

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /\_\_/\_)

1. Fee Category and Amount: \_\_\_\_\_

2. Correct Fee Paid. Application may be processed for:  
Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_



REPLY TO  
ATTENTION OF:

DEPARTMENT OF THE ARMY  
NATIONAL GROUND INTELLIGENCE CENTER  
220 SEVENTH STREET, NE  
CHARLOTTESVILLE, VIRGINIA 22902-5396



IANG-F (381)

25 September 1996

MEMORANDUM FOR U. S. Nuclear Regulatory Commission (Nuclear  
Materials Licensing Section), Region II, 101  
Marietta Street, N.W., Suite 2900, Atlanta, GA  
30323-0199

SUBJECT: Change of License

1. Reference License number 45-25134-01, renewal letter dated March 1, 1996.
2. In our recent request for license renewal, the National Ground Intelligence Center (NGIC) requested the removal of Nuclear Source Material (uranium or thorium) from our license. A copy of the new Supplement 5.1, Radioactive Material List, that was submitted with our renewal is enclosed.
3. Request an amendment be made to drop nuclear source material from our license. NGIC has never had possession of nuclear source material on the NRC license. Also request Supplement 9.3 be revised to allow a maximum instrument calibration frequency of 365 days (see enclosure 2).
4. Please advise NGIC what the new cost of the license will be and the due date for payment.
5. Questions concerning this request may be directed to Dr. Charles M. Ward, 804-980-7886; unclassified FAX 804-980-7699.

FOR THE COMMANDER:

2 Encls

*Paul J. Chernauskas LTC*  
PAUL J. CHERNAUSKAS  
Director, Foreign Materiel

CF:  
APG, ATTN: STEAP-SH-EH (MR. CARDENUTO)  
NGIC, ATTN: IANG-TCN (DR. WARD)



SUPPLEMENT 5.1  
RADIOACTIVE MATERIAL LIST

ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER	MAXIMUM AMOUNT WHICH WILL BE POSSESSED AT ANY ONE TIME
Any byproduct material with atomic numbers 1-52, inclusive, and 54-84 inclusive.	Any	N/A	Each radionuclide shall not exceed the amount listed in 10 CFR 33.100 Schedule A Col 1. The sum of the ratio shall not exceed unity. In addition posses- sion limits shall be maintained to not exceed 10 CFR 30.35(d) for un- sealed quantities
Hydrogen 3	Sealed in Glass Ampoules, or as activated Paint	N/A	2,000 curies total
Cobalt 60	Sealed Sources	N/A	100 millicuries total
Nickel 63	Foils, Plated Sources or sealed sources	N/A	1 curie total
Krypton 85	Sealed Sources	N/A	1 curie total
Strontium 90	Sealed Sources	N/A	100 millicuries total
Cesium 137	Sealed Sources	N/A	100 millicuries total
Promethium 147	Sealed Sources	N/A	1 curie total
Americium 241	Foils, Plated Sources or sealed sources	N/A	10 millicuries total
Special Nuclear Material	Sealed Sources Metal or Plated Metal	N/A	50 grams total

### SUPPLEMENT 9.3

#### INSTRUMENT CALIBRATION

The calibration of radiation detection instruments is performed by the U.S. Army Test, Measurement and Diagnostic Equipment Support (TMDE) Center, Aberdeen Proving Ground, MD 21005, in accordance with the Army Calibration Program. Instruments are recalled for calibration through the use of a computer print out. The frequency of calibration for radiation protection instruments will be IAW TB 43-180. Sources used are those of the TMDE. The TMDE is covered by separate NRC License.

Dosimeters (self-reading) if required will be submitted to the TMDE for inspection, calibration, and certification at intervals not to exceed 365 days.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 1, 1996

ARMY, DEPARTMENT OF THE  
ATTN: Mr. R.A. CARDENUTO  
Radiation Safety Officer  
U.S. ARMY NATIONAL GROUND / INTELLIGENCE CENTER IANG-RFM  
220 7TH STREET, NE  
CHARLOTTESVILLE, VA 22902-5396

SUBJECT: ONE-TIME EXTENSION OF LICENSE EXPIRATION DATE  
LICENSE NUMBER 45-25134-01, DOCKET NUMBER 3032042

Dear Mr. R.A. CARDENUTO

On January 16, 1996, the Nuclear Regulatory Commission (NRC) amended its regulations in 10 CFR 30, 40, and 70 to extend the expiration date of certain byproduct, source, and special nuclear material licenses by five years (61 FR 1109). The above referenced license was extended by this rulemaking and will now expire on February 28, 2001. Your license will not be amended to show this extended date until the next routine licensing action. Until then, you may provide copies of this letter to vendors and other interested parties as evidence that the license has been extended as a result of the rule.

The extended license authorizes the same activities and contains the same limitations as it previously did. There will be no change in the frequency that the NRC inspects activities authorized by this license.

The amended rules state that in the case of licensees who are granted extensions and who have a currently pending renewal application for that extended license, the application will be considered withdrawn by the licensee and any renewal fees paid by the licensee for that application will be refunded. This will apply to licenses with expiration dates after July 1, 1995, for which renewal applications and the appropriate fees have been submitted and the renewal is still pending. Refunds will be mailed to licensees under separate cover.

All licensees, including those whose renewal applications were withdrawn by this rulemaking, who wish to change their radiation safety programs must request amendment of their licenses to reflect these changes. Amendment requests must include the correct amendment fee since the NRC cannot apply pending renewal refund balances toward amendment fees.

If you have any questions regarding this letter, please contact the individual below.

Region 2: Jose Diaz-Velez, (404) 331-7438

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Cool", is written over a horizontal line.

Donald A. Cool, Director  
Division of Industrial and Medical Nuclear Safety  
Office of Nuclear Materials Safety and Safeguards