

MATERIALS LICENSE

Amendment No. 44

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.

OFFICIAL RECORD COPY

Licensee

1. Department of the Army
U.S. Army Research Laboratory
2. 395 Arsenal Street
Watertown, Massachusetts 02172-2700

In accordance with letter dated
August 15, 1996,

3. License Number 20-01010-04 is amended in
its entirety to read as follows:

4. Expiration Date September 30, 1997

5. Docket or
Reference No. 030-04593

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 3 through 83
- B. Strontium 90
- C. Hydrogen 3
- D. Cobalt 60
- E. Cesium 137
- F. Polonium 210

- A. Any
- B. Any
- C. Any
- D. Sealed sources
- E. Sealed sources
- F. Sealed sources

- A. 30 curies
- B. 1 curie
- C. 28 curies
- D. 1 curie
- E. 1 curie
- F. 2 millicuries

9. Authorized use

A. through F. For storage only.

CONDITIONS

10. Licensed material may be used only at the licensee's facility at the U.S. Army Research Laboratory, Arsenal Street, Watertown, Massachusetts.
11. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the licensee's Radiation Safety Officer.
B. The Radiation Safety Officer for this license is Robert E. Chase.
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.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

20-01010-04

Docket or Reference Number

030-04593

Amendment No. 44

(Continued)

CONDITIONS

13. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."
14. This license shall not store licensed material contained in waste for more than two (2) years from the date the waste is put into storage or from October 1, 1992, whichever is later. The licensee shall maintain records which indicate the date that licensed material contained in waste is put into storage.
15. The licensee is not authorized to release material for unrestricted use using the criterion identified for Sanitary Sewer Sediment in Table 2-1 on Page 2-3 and in Appendix 5 of the Facility Decommissioning Plan.
16. Facilities and equipment shall be cleaned so that fixed and removable surface contamination does not exceed the limits specified in "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material" dated May 1987, prior to being released for unrestricted use.
17. 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 a 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

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(17. continued)

CONDITIONS

- (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.
- 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.
18. The licensee shall conduct a physical inventory every three (3) months to account for all sources and/or devices received and possessed pursuant to 10 CFR 35.57, 10 CFR 35.400 and 10 CFR 35.500 and every six (6) months for all other sources and/or devices. Records of inventories shall be maintained for 5 years from the date of each inventory.

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SUPPLEMENTARY SHEET**

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(Continued)

CONDITIONS

19. 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 June 10, 1983
- B. Letter dated May 4, 1989
- C. Letter dated April 23, 1992 with enclosed Facility Decommissioning Plan
- D. Letter dated May 20, 1992
- E. Letter dated June 22, 1992
- F. Letter dated July 15, 1992
- G. Letter dated September 29, 1992
- H. Letter dated June 30, 1993
- I. Letter dated April 1, 1994
- J. Letter dated March 15, 1995

Date SEP 25 1996

For the U.S. Nuclear Regulatory Commission
Original Signed By:
Ronald R. Bellamy

By _____
Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

SEP 25 1996

Kenneth F. Worth
Site Operation Director
U.S. Army Research Laboratory
ATTN: AMSRL-OP-WT
Caretaker Force
395 Arsenal Street
Watertown, Massachusetts 02172-2700

Dear Mr. Worth:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original Signed By:
Ronald R. Bellamy

Ronald R. Bellamy, Chief
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety

License No. 20-01010-04
Docket No. 030-04593
Control No. 123610

Enclosure:
Amendment No. 44

DOCUMENT NAME: C:\WORDPERF\DOCS\ARL\AMD44 30.ARL

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	E	DNMS/RI				
NAME	MBouwens <i>MB</i>		RBellamy <i>RB</i>				
DATE	08/30/96		08/ <i>30</i> /96	08/ /96		08/ /96	

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ML 10



REPLY TO
THE ATTENTION OF

DEPARTMENT OF THE ARMY
UNITED STATES ARMY RESEARCH LABORATORY
395 ARSENAL STREET
WATERTOWN, MASSACHUSETTS 02172-2700

AMSRL-OP-WT-RK(385)

15 August 1996

License Numbers:

20-01010-04

SUB-238

SNM-244

Docket Numbers:

030-04593

040-02253

070-00263

Mr. Ronald R. Bellamy
Chief, Site Decommissioning Section
Division of Radiation Safety and Safeguards
U.S. Nuclear Regulatory Commission/Region I
475 Allendale Road
King of Prussia, PA 19406-1416


Dear Mr. Bellamy,

In accordance with 10CFR35.21 we hereby request that Mr. Robert E. Chase, be assigned as the Radiation Safety Officer upon the departure of Mr. Peter Cornetta. Mr. Chase has served as the Project Manager for the decommissioning of this site and prior to that was the Chief of the Risk Management Office.

The only radioactive sources remaining at this facility are the fission chambers containing uranium-235, the exempt check sources, some naturally occurring radioactive sources and waste to be disposed of in the near future. None of these items pose an external radiation hazard. The uranium-235 has already been packaged for shipment. At this time it is uncertain as to whether these sources will be returned to the Department of Energy prior to Mr. Cornetta's departure.

Questions concerning this request should be addressed to Peter Cornetta at (617) 753-3816. Mr. Chase's resume is enclosed.

Encl


Kenneth F. Worth
Site Operation Director

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123610

AUG 26 1996

ARL - A NATIONAL REINVENTION LABORATORY



ROBERT E. CHASE

EMPLOYMENT

1988 - Present	Chief, Risk Management Branch, MTL, Watertown, MA
1987 - 1988	Chief, Engineering Plans & Services Branch MTL, Watertown, MA
1975 - 1987	Regional Engineer & Environmental Manager, DOE Region I, Boston, MA
1970 - 1975	General Engineer, Permits Branch, Enforcement Division, EPA, Region I, Boston, MA
1968 - 1970	Environmental Engineer, Captain, U.S. Army

EDUCATION AND TRAINING

1967	BS Civil Engineering, Northeastern University, Boston, MA
1968	MS Environmental Engineering, Northeastern University, Boston, MA
1969	Radiation Health Course, Edgewood Arsenal, MD
1970- 1976	Ocean Engineering, Northeastern University, Boston, MA

PERTINENT EXPERIENCE

1988 - Present	Responsible for all Health & Safety conditions at MTL, Watertown, MA
1970 - 1975	Coordinated Radiological input for Environmental Impact Statements
1968 - 1970	Responsible for Radiological Testing & Oversight

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
EXP. DATE: 19970930
FEE COMMENTS: -----
DECOM FIN ASSUR REQD: Y

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: ARMY, DEPARTMENT OF THE
RECEIVED DATE: 960826
DOCKET NO: 3004593
CONTROL NO.: 123610
LICENSE NO.: 20-01010-04
ACTION TYPE: AMENDMENT

2. FEE ATTACHED
AMOUNT: -----
CHECK NO.: -----

3. COMMENTS

SIGNED M. A. Perkins
DATE 8/27/96

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 -----