

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

20-28476-01

Docket or Reference Number

030-31497

OFFICIAL RECORD COPY

Amendment No. 04

IMI, Inc.

140 Hilldale Avenue
Haverhill, Massachusetts 01832

In accordance with the letter dated February 21, 1997, License Number 20-28476-01 is hereby terminated.



6/1



For the U.S. Nuclear Regulatory Commission

Original Signed By:
Pamela J. Henderson

By

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406Date MAR - 6 1997

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MAR - 6 1997

Anthony J. Spinella
Radiation Safety Officer
IMI, Inc.
140 Hilldale Avenue
Haverhill, MA 01832

Dear Mr. Spinella:

Please find enclosed Amendment No. 04 terminating License No. 20-28476-01 as requested by your letter dated February 13, 1997. The facility at 140 Hilldale Avenue, Haverhill, Massachusetts, may be released for unrestricted use.

Your cooperation with us is appreciated.

Sincerely,

Original Signed By:

C. Thor Oberg, Health Physicist
Division of Nuclear Materials Safety

License No. 20-28476-0,
Docket No. 030-31497
Control No. 124275

Enclosure:
Amendment No. 04

Mr. Anthony Spinella
IMI, Inc.

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DOCUMENT NAME: R:\WPS\MLTR\L2028476.01

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	<input checked="" type="checkbox"/>	N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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DATE	02/23/97	<input checked="" type="checkbox"/>		02/ /97	<input type="checkbox"/>	02/ /97	<input type="checkbox"/>	02/ /97

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February 21, 1997

United States Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415
Attn: Phil Oberg

Dear Phil,

The purpose of this letter is in response to our phone conversation on 2/19/97. Below you will find all of the information that you have requested.

- IMI, Inc. returned our only remaining source to Glenbrook Technologies on 2/07/97.
- Two copies of Glenbrook Technologies' Materials License
- Two copies of our last Certificate of Leak Test (from Glenbrook Technologies)
- Two copies of the receipt from Glenbrook stating that they received the isotope on 2/11/97

If there is any additional information required, please feel free to contact me at the telephone number listed below.

Thank you,

Anthony J. Spina
Radiation Safety Officer
IMI, Inc.
140 Hilldale Avenue
Haverhill, MA 01832
(508) 373-9190

.enc

124275

FEB 26 1997

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FAX REC'D FEB 21 1997

MATERIALS LICENSE

Amendment No. 06

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. Glenbrook Technologies, Inc.
2. P. O. Box 468
Morris Plains, New Jersey 07950-0468

In accordance with the application dated October 5, 1993,
3. License number 29-21464-01 is amended in its entirety to read as follows:

4. Expiration date July 31, 1999

5. Docket or Reference No. 030-20803

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. Iodine 125

A. Sealed source (Amersham Model IMC.P2 or Nordion Model C-324)

A. Not to exceed 500 millicuries per source and 15 curies total

B. Americium 241

B. Sealed source (Amersham Model AMC.24)

B. Not to exceed 15 millicuries per source and 150 millicuries total

C. Iodine 125

C. Sealed source (Amersham Model IMC.P2 or Nordion Model C-324)

C. Not to exceed 650 millicuries per source and 6.5 curies total

9. Authorized use

A. and B. For use in Lixiscope Model LS-80X (series) or LS-82X (series) for:

- (1) Nondestructive testing and examination of printed circuit boards and related parts and components.
- (2) Demonstration of, and training in the use and operation of the above Lixiscope devices.
- (3) Distribution to persons specifically authorized to receive the licensed material pursuant to the terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or an Agreement State.
- (4) Distribution with Glenbrook Models RT-112, RT-113, and RT-113Q devices to persons specifically authorized to receive the licensed material pursuant to the terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or an Agreement State.

C. For possession only

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

29-21464-01

Docket or Reference number

030-20803

Amendment No. 06

(Continued)

CONDITIONS

10. Licensed material may be used at Hamilton Business Park, Building 1C, Victory Gardens, New Jersey and at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. Licensed material shall only be used by, or under the supervision and in the physical presence of, Gilbert Zweig or William Horn.
12. The Radiation Safety Officer for this license is Gilbert Zweig.
13.
 - A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three 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 three months.
 - C. In the absence of a certificate from a transferor indicating that a leak 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 radioactive 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
 - (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. 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 or detector cell shall be removed immediately from service and decontaminated, repaired, or

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number PAGE 3 OF 3 PAGES

Docket or Reference number 20-21464-01

030-20803

Amendment No. 06

(13. Continued)

CONDITIONS

disposed of in accordance with Commission regulations. The report shall be filed within five 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 or detector cell involved, the test results, and corrective action taken.

- G. The licensee is authorized to collect leak test samples for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
17. Licensed material shall not be used in or on human beings.
18. The licensee is authorized to perform Lixiscope source replacement-exchange of the source holder (head) in accordance with instructions in the Lixiscope Instructions Manual.
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 August 29, 1983
 - B. Letter dated October 11, 1983
 - C. Letter dated October 28, 1983
 - D. Letter dated March 9, 1987
 - E. Letter dated April 29, 1987
 - F. Letter dated June 19, 1987
 - G. Letter dated July 9, 1987
 - H. Letter dated July 13, 1994

For the U.S. Nuclear Regulatory Commission

Date JUL 21 1994

By

James M. Smith
Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

Glenbrook Technologies Inc.

CERTIFICATE OF LEAK TEST

Customer:

IMI

Source Serial No.: A211

Isotope: Iodine-125

Manufacturer: NORDION

Activity: 389 mCi.

Assay Date: 10/29/96

Source Head S/N 2787

This is to certify that the leak test on the above source was performed
by NORDION on 10/21/96
(Testing facility) (Date)

and validated by RICH HALL of that facility.

It was determined that the level of removable contamination was below
0.005 microcuries.

The original certificate is on file at Glenbrook Technologies.

NOTE: Removable contamination of 0.005 microcuries or greater
constitutes a leaking source.

Date 10/29/96

Signed William J. Hall



Glenbrook Technologies, Inc.

P.O. Box 468
MORRIS PLAINS, NJ 07950-0468
U.S.A.

(201) PLEASE NOTE THIS CHANGE:
New Phone # (201) 361-8866
New FAX # (201) 361-9286
Telex 219744 ICC UR

GLENBROOK TECHNOLOGIES...P.O.BOX 468...MORRIS PLAINS, NJ 07950-0468
Tel.(201) 361-8866 Fax.(201)361-9286
=====

Acknowledgment of Receipt of
Radioactive Isotope Source.

Facility:

I M I CORP.

140 HILDALE AVE.

HAVERHILL, MA 01830

Source Serial No.: H211

Isotope: Iodine-125

Manufacturer: NORDION

Activity: 389 mCi

Assay Date: 10/29/96

Source Head S/N: 2787

This is to acknowledge that the radioactive source described above has been received, on 02/11/97, by Glenbrook Technologies for disposal.

To our knowledge this facility no longer has in its possession any radioactive Iodine-125 obtained from Glenbrook Technologies.

Date

2/19/97

Signed

G. ZWIG

U.S.N.R.C. Lic.No. 29-21464-01

isorecpt

TELEPHONE CONVERSATION RECORD

LICENSEE * : IMI, Inc.
140 Hilldale Avenue
Haverhill, MA 01832

DOC-NAME: P:\TEL-IMI.CTO

INDIVIDUAL, TITLE, & PHONE: Anthony J. Spinella, RSO, 508-373-9190

* DEFICIENCY * : YES (X)
NO ()

LICENSE NO. 20-28476-01
DOCKET NO. 030-31497
MAIL CONTROL NO. 124275

** LER ** : YES ()
NO (X)

INCOMING ()
OUTGOING (X)

TIME: 3:45pm
DATE: 2/19/97

CALLER: C T Oberg

SUBJECT: TERMINATION REQUEST FOR LIC. NO. 20-28476-01,
DEFICIENCY TELECON

- SUMMARY:
1. Please specify the number of iodine-125 sealed sources that you maintained and returned to your supplier.
ONE
 2. Submit copies of the most recent leak test date(s) & results.
WILL SUBMIT
 3. Confirm that your supplier verified the receipt of the iodine-125 sealed sources.
WILL REQUEST CONFIRMATION FROM SUPPLIER
 4. Confirm that a copy of your supplier's license is available to you.
WILL REQUEST FROM SUPPLIER

Please submit response (FAX & hard copies) in duplicate and reference mail control No. 124275.

ACTION REQUIRED: Await FAX and hard copies

NAME, SIGNATURE and DATE: C. T. Oberg 2/19/96

ACTION TAKEN:

NAME, SIGNATURE and DATE: C. T. Oberg __/__/96

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030-31497

February 13, 1997

United States Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

To Whom it May Concern;

The purpose of this letter is to request termination of our materials license (lic. no.: 20-28476-01 ; expiration date: April 30, 2000). We have returned all sealed sources (Iodine-125) to our supplier, Glenbrook Technologies (201) 361-8866. We will no longer be needing this license due to decommissioning of our Lixiscope x-ray machine. Please contact me at (508) 373-9190 if there are any questions or additional steps required to terminate this license.

Thank you for your cooperation.

Anthony J. Spinella
Radiation Safety Officer
IMI, Inc.
140 Hilldale Avenue
Haverhill, MA 01832
(508) 373-9190

124275

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ML 10

FEB 18 1997

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03124
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 20000430
FEE COMMENTS: _____
DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: IMI, INC
RECEIVED DATE: 970218
DOCKET NO: 3031497
CONTROL NO.: 124275
LICENSE NO.: 20-28476-01
ACTION TYPE: TERMINATION

2. FEE ATTACHED

AMOUNT: _____
CHECK NO.: _____

3. COMMENTS

SIGNED
DATE

M. A. Perkins

2/19/97

3. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILES DUE 03 IS ENTERED) 1

1. FEE CATEGORY AND AMOUNT: 3P

FEE EXEMPT

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT _____
RENEWAL _____
LICENSE _____

3. OTHER _____

SIGNED
DATE

RECEIVED BY LFDCB	
Date	<u>2/28/97</u>
Log	<u>Feb 15 1997</u>
By	<u>SA</u>
Date Completed	<u>2/28/97</u>

1997 FEB 25 AM 10:33