

### APPLICATION FOR MATERIAL LICENSE

030-20803

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

**APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20566

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:**

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIALS SAFETY SECTION B  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
NUCLEAR MATERIALS SAFETY SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
NUCLEAR MATERIALS SAFETY SECTION  
1460 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94598

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE
- B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_
- C. RENEWAL OF LICENSE NUMBER 29-21464-01

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Glenbrook Technologies, Inc.  
P.O. Box 262  
Morris Plains, NJ 07950

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

Glenbrook Technologies, Inc  
Hamilton Business Park, Franklin Road- Unit 1C  
Victory Gardens, NJ 07801  
and temporary job sites in the US as required.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Gilbert Zweig

TELEPHONE NUMBER

(201)361-8866

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT ENCLOSED \$120.00

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE - CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Gilbert Zweig

President

Aug. 12, 1988

9001310398 881214  
REQ1 LIC30  
29-21464-01 PDR

FOR NRC USE ONLY

TYPE OF FEE <b>REN</b>	FEE LOG <b>Sep. 3<sup>rd</sup></b>	FEE CATEGORY <b>3P</b>	COMMENTS	APPROVED BY 
AMOUNT RECEIVED <b>\$120</b>	CHECK NUMBER <b>3804</b>			DATE <b>9/13/88</b>

8/17/88

109431

MATERIALS LICENSE

Amendment No. 04

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. Glenbrook Technologies, Inc.
- 2. Hamilton Business Park  
Franklin Road, Unit 1C  
Victory Gardens, New Jersey 07801

In accordance with letter dated February 15, 1988, License number 29-21464-01 is amended in its entirety to read as follows:

4. Expiration date November 30, 1988

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 AECL Model C-324)

A. Not to exceed 500 millicuries per source

B. Americium 241

B. Sealed source (Amersham Model AMC. 24)

B. Not to exceed 15 millicuries per source

9. Authorized use

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

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 be used by, or under the supervision and in the physical presence of, Gilbert Zweig or William Horn.

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

29-21464-01

Docket or Reference number

030-20803

Amendment No. 04

(Continued)

## CONDITIONS

12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from detector cells by the licensee.
13. A. Any sealed sources or detector cells specified in Item 7.A. and 7.B. 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.
- 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 I, ATTN: Chief, Nuclear Materials Safety and Safeguards Branch, 475 Allendale 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. The licensee is authorized to collect leak test samples and have them analyzed by persons specifically authorized by the Commission or an Agreement State to perform such services.
14. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
16. Licensed material shall not be used in or on human beings.
17. The licensee is authorized to perform Lixiscope source replacement-exchange of the source holder (head) in accordance with instructions in the Lixiscope Instructions Manual.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number	29-21464-01
Docket or Reference number	030-20803
Amendment No. 04	

(Continued)

CONDITIONS

18. 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 September 24, 1984
- E. Letter dated September 8, 1986
- F. Letter dated March 9, 1987
- G. Letter dated April 29, 1987
- H. Letter dated June 19, 1987
- I. Letter dated July 9, 1987
- J. Letter dated February 15, 1988

For the U.S. Nuclear Regulatory Commission

Date 30 MAR 1988

By *[Signature]*  
 Nuclear Materials Safety and  
 Safeguards Branch, Region I  
 King of Prussia, Pennsylvania 19406



(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03214  
STATUS CODE: 2  
FEE CATEGORY: 3P  
EXP. DATE: 19881130  
FEE COMMENTS: -----

LICENSE FEE TRANSMITTAL

A. REGION *I*

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: GLENBROOK TECHNOLOGIES, INC.  
RECEIVED DATE: 880817  
DOCKET NO: 3020803  
CONTROL NO.: 109431  
LICENSE NO.: 29-21464-01  
ACTION TYPE: RENEWAL

2. FEE ATTACHED

AMOUNT: \$ ~~8800~~ 120.00  
CHECK NO.: 3804

3. COMMENTS

SIGNED *A.P. Brown*  
DATE 88/08/35

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED *1-11*)

1. FEE CATEGORY AND AMOUNT: *3P*

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

AMENDMENT -----  
RENEWAL  -----  
LICENSE -----

3. OTHER -----

SIGNED *S. Kimberley*  
DATE 9/12/88