

MATERIALS LICENSE

Amendment No. 07

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		In accordance with the letter dated March 24, 1997,	
1. Department of Defense National Security Agency		3. License Number 19-07141-10 is amended in its entirety to read as follows:	
2. 9800 Savage Road Fort George G. Meade, Maryland 20755-6000		4. Expiration Date	May 31, 2004
		5. Docket or Reference No.	030-20019
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 sources (Amersham Corp. IMC.P2 or AECL Model C-324)	A. Not to exceed 500 millicuries per source and 3 curies total	
9. Authorized use			
A. For use in Lixi, Inc. Model LS-80X or LS-82X to examine/inspect components and hardware.			

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at Ft. George G. Meade, Maryland, and the NSA FANX III Building, 840 Elkridge Landing, Linthicum, Maryland, and at temporary job sites of the licensee anywhere in the United States.
11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated November 24, 1993 and have been designated in writing by the Radiation Safety Officer.
B. The Radiation Safety Officer for this license is Charles C. Riffin.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
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.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

19-07141-10

Docket or Reference Number

030-20019

Amendment No. 07

- 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 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 Stan Huber Consultants, Inc. 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.

**MATERIALS LICENSE
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19-07141-10

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Amendment No. 07

14. The licensee is authorized to 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 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 perform the Lixiscope source replacement exchange of the source holder (head) in accordance with the instructions in the Lixiscope Instruction Manual.
17. Licensed material shall not be used in or on human beings.
18. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
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 November 24, 1993
 - B. Letter dated May 2, 1994
 - C. Letter dated June 4, 1996

Date

JUN 25 1997

For the U.S. Nuclear Regulatory Commission

Original Signed By:

John R. McGrath

By

Nuclear Materials Safety Branch

Region I

King of Prussia, Pennsylvania 19406

JUN 25 1997

Charles C. Riggin
Radiation Safety Officer
Department of Defense
National Security Agency
9800 Savage Road
Fort George G. Meade, Maryland 20755-6000

Dear Mr. Riggin:

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:
John R. McGrath
John McGrath
Division of Nuclear Materials Safety

License No. 19-07141-10
Docket No. 030-20019
Control No. 124441

Enclosure:
Amendment No. 07

DOCUMENT NAME: R:\WPS\MLTR\L1907141.10

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="checked" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	McGrath <i>JRM</i>						
DATE	06/25/97	06/ /97	C6/ /97		06/ /97		

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NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
FORT GEORGE G. MEADE, MARYLAND 20755-6000

MS-16
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10 June 1997

MEMORANDUM FOR LICENSING ASSISTANT SECTION, U.S. NUCLEAR
REGULATORY COMMISSION, REGION 1

ATTN: John McGrath

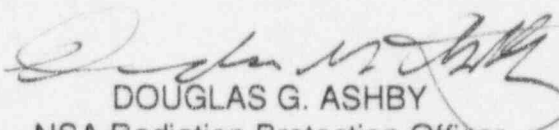
SUBJECT: Verification of Training

References: a. NRC License No. 19-07141-10/Docket No. 030-20019.

b. National Security Agency Letter, dated 24 March 1997.

1. As requested per phone conversation on 11 April 1997, Mr. Charles Riggin's certificate is attached. You indicated that you would approve the request for a license amendment (reference b) once you receive Mr. Riggin's training certificate to show that he completed the Lixi, Inc., Instructor Training Course.

2. Additional questions concerning this matter may be directed to the undersigned at (410) 684-7287, or Mr. Charles Riggin at (410) 968-6663.


DOUGLAS G. ASHBY
NSA Radiation Protection Officer



INSTRUCTOR CERTIFICATE

LIXI RADIATION SAFETY TRAINING COURSE

This is to certify that *Charles C. Riggins, Sr.* has completed the basic requirements of an instructor's rating for the LIXI Radiation Safety Training Course. The instructor has successfully completed all the requirements established by Lixi, Inc. for teaching the LIXI Imaging Scope training course. The instructor has also completed the basic course on uses and applications of the LIXI Imaging Scope and how to demonstrate it. This certificate qualifies the instructor named above to teach the LIXI Radiation Safety Training Course as approved on Illinois License No.'s IL-01013-01 and IL-10339-01 (Lixi's License Number).

CERTIFIED BY LIXI, INC.

UNDER LICENSE NO. IL-10339-01

DATE: June 6, 1997

SIGNATURE:

A handwritten signature in dark ink, appearing to read "Robert J. Savini", is written over a horizontal line.

NAME:

Robert J. Savini

TITLE:

Executive Vice President

CERTIFICATE OF TRAINING

RADIATION SAFETY

This is to certify that Charles C. Riggin, Sr.

has completed the LIXI™ Radiation Training Course on file with the Illinois Department of Nuclear Safety.

This training was completed on: June 6, 1997

This training course was developed by Lixi, Inc. and Stan A. Huber Consultants Inc. for the purpose of providing the necessary training in radiation safety and experience for LIXI™ Imaging Scope users. The training was given as approved by the Illinois Department of Nuclear Safety under License Numbers IL-01013-01 and IL-01339-01.

This also certifies that the trainee has personally operated a working LIXI™ Imaging Scope, under supervision, in the aforementioned course.

A copy of this certificate is to be provided to the NRC or Agreement State as proof that the trainee has the necessary experience to make a specific application for a Byproduct Material License to possess and use a LIXI™ Imaging Scope.

This document was prepared in conformity with 32 Illinois Administrative Code, and all information contained herein is true and correct to the best of our knowledge and belief.

Certified by: Lixi, Inc.

Instructor: Robert Savini

Signature: *Robert Savini*

Under License No.: IL-01339-01

Date: June 6, 1997

Date: _____

New Certificate Revised 7/1/89

TELEPHONE CONVERSATION RECORD	Date: 4/11/97	Time: 1340
Mail Control No.: 124441	License No.: 19-07141-10	Docket No.: 030-20019
Person Called: Douglas Ashby	Organization: National Security Agency	Telephone Number: 410- 684-7287
Person Calling:		
Subject: Amendment application		
Summary: Called to request a copy of training certificate for Mr. Rigglin.		
Action Required/Taken:		
Signature: John R. McGrath <i>JRM</i>	Date: 4/11/97	



NATIONAL SECURITY AGENCY
FORT GEORGE G. MEADE, MARYLAND 20755-6000

Serial: ISSO-012-97
24 March 1997

MEMORANDUM FOR LICENSING ASSISTANT SECTION, U.S. NUCLEAR
REGULATORY COMMISSION, REGION 1

SUBJECT: Changes to NRC License No. 19-07141-10/Docket No. 030-200-19 -
ACTION MEMORANDUM

Request that Mr. Charles Rigglin replace Mr. Douglas Ashby as the Radiation Safety Officer for the above license. This action will enhance management of the license sources since Mr. Rigglin is a member of our organization and has direct control over the license sources and personnel who use them. As the National Security Agency Radiation Protection Officer, Mr. Ashby shall continue to have oversight of our license Agency activities and assist Mr. Rigglin in management of the overall program. Mr. Rigglin is a Class 2 Radiographer (certificate enclosed) and has over 10 years experience working with radiation producing sources and implementing and enforcing radiation safety procedures. Mr. Rigglin is scheduled to take the manufacturer's (Lixi, Incorporated) Instructor Training Course, as approved by Lixi's License No. IL 01339-01 (formally NRC License No. 12-1821-01), which will authorize him to certify users of the Lixi Imaging Scopes containing license material.

Questions concerning this matter may be directed to Mr. Ashby at (410) 684-7287 or Mr. Rigglin at (410) 859-6663.

THOMAS J. McDERMOTT
Deputy Director
for
Information Systems Security

Encl:
a/s

124441

APR - 3 1997

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CERTIFICATE OF ACHIEVEMENT

This document hereby certifies that

Charles Kiggin

Has attended the **Comprehensive Seminar in Industrial Radiography** and has completed a formal training program as recommended by the American Society of Nondestructive Testing, Practice SNT-TC-1A, for the Level II Radiographers on

September 13-24, 1993
Date

[Signature]
Marketing Education Specialist

Marketing Education Specialist



Marketing
Education
and
Support
Operations

124441

INDUSTRIAL IMAGING

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

: Program Code: 03124
: Status Code: 0
: Fee Category: EX 3P
: Exp. Date: 20040531
: Fee Comments: -----
: Decom Fin Assur Req'd: N
:

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: DEFENSE, DEPARTMENT OF
Received Date: 970403
Docket No: 3020019
Control No.: 124441
License No.: 19-07141-10
Action Type: Amendment

2. FEE ATTACHED

Amount: -----
Check No.: -----

3. COMMENTS

Signed L. J. Brown
Date 4-4-97

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 -----