NRC FORM 313
(1-84)
10 CFR 30, 32, 33, 34, 35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3150-0120
Expires: 5-31-87

APPLICATION FOR MATERIAL LICENSE

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.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20555

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
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
MATERIAL RADIATION PROTECTION 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
MATERIAL RADIATION PROTECTION SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

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)*

- [X] A. NEW LICENSE
- [ ] B. AMENDMENT TO LICENSE NUMBER _____
- [ ] C. RENEWAL OF LICENSE NUMBER _____

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

DR. RICHARD I. POLISNER, P.C.
1043 CURTISS AVENUE
DOWNERS GROVE, ILLINOIS 60515 IE/L 23538

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

1043 CURTISS AVENUE
DOWNERS GROVE, ILLINOIS 60515

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

NANCY R. SCHRAMM

TELEPHONE NUMBER: 312-969-7714

SUBMIT ITEMS 5 THROUGH 11 ON 8½ 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

AMOUNT ENCLOSED $

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
Nancy R. Schramm	NANCY R. SCHRAMM	Administrative Assistant	6/11/85

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS

- [ ] <$250K
- [ ] $250K–500K
- [ ] $500K–750K
- [ ] $750K–1M
- [ ] $1M–3.5M
- [ ] $3.5M–7M
- [ ] $7M–10M
- [ ] >$10M

b. NUMBER OF EMPLOYEES *(Total for entire facility excluding outside contractors)*

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION *(dollar and/or staff hours)* ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? *(NRC regulations permit it to protect confidential commercial or financial–proprietary–information furnished to the agency in confidence)*

- [ ] YES
- [ ] NO

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
appl	June II	7C		

AMOUNT RECEIVED	CHECK NUMBER	DATE
$580	4083	7/9/85

PRIVACY ACT STATEM

8508220440 850808
REG3 LIC30
12-23538-01 PDR

19034

PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).

2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.

3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.

4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.

5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission
Director, Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
Washington, D.C. 20555

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300

FIRST CLASS MAIL
POSTAGE & FEES PAID
USNRC
WASH D C
PERMIT No G67

SUPPLEMENTAL INFORMATION

DR. RICHARD I. POLISNER, P.C.

5. a. Iodine-125
   b. Solid, sealed source AECL C-324 or Amersham IMC P2 LIXI scope Model LSM-82-209
   c. 500 mCi per source

6. As a source of ionizing radiation for the purpose of diagnostic x-ray of sick or injured patients.

7. RICHARD I. POLISNER, D.P.M.
   a. Eight (8) hours of Physics at Case Western Reserve University 1962 - 1966.
   b. Course in Clinical Radiation & Clinical Radiology, Ohio Collect of Podiatric Medicine 1966 - 1970.
   c. Extensive use of radioactive iodine isotopes in renal research at Western Reserve University Medical School 1964 - 1970.
   d. Lixi Radiation Safety Training Course - Certificate attached.

   MICHAEL SCHWARTZMAN, D.P.M.
   a. 1 year Physics undergraduate including basics, theoretical aspects of radiation, University of Illinois.
   b. 1 year Radiology, Illinois Collect of Podiatric Medicine. Included physics, radiation laws in State of Illinois, e.g. allowable RADS, etc.
   c. Residency - V.A. Medical Center, Marion, IL. Experience with fluoroscopy, CAT scan invluding preventive measures to radiative exposure.
   d. Lixi Radiation Safety Training Course - Certificate attached.

8. Not applicable

9. Sketch of facility attached.

   Facility is located at 1043 Curtiss Street, Downers Grove, IL 60515 in a one story building of brick construction. The building has five units, applicant occupies rearmost unit of building. Building faces north with rear entrances to the south. The LIXI scope is supplied with the necessary safety equipment for storage and use.

10. Qualified personnel will be trained by licensee using the Lixi, Inc. Training Course and LIXI scope Instruction Manual. Outline of course attached. Such persons may only use the device under the direct supervision and presence of licensee.

    Orders for material will be placed using Lixi, Inc. catalog numbers and specifications. When received, packages will be inspected for damage. Contents will be inspected and operational checks performed. Receiving records will be maintained and material will be logged into accountability system. Device will be placed in secured storage until utilized.

    Licensee will observe the following general rules:

    a. Device will be kept in secure storage when not in use. Locks will be kept in place.
    b. Licensee will not permit anyone to place fingers, hands or feet into beam to test device for operation.

Supplemental Information, Dr. Richard I. Polisner, Continued:

c. The device will not be used to experiment on patients. Use will be limited to diagnostic examination of patients with specific applicable medical problems.
d. Source holder will be left attached to device excent for leak testing and source exchange.
e. Device will be returned to secure storage after use.

All precautions and procedures as described in the following:

f. Licensee will not remove the sealed source from the source holder.
g. Leak test will be performed at six month intervals.
h. Transport of materials will be in accordance with D.O.T. Regulations.
i. Source exchange will be trhough the manufacturer.
j. Manual will be followed.
k. During transport and at temporary job sites, the licensee will insure that the device is attended and secured at all times by the licensee, or locked in secure storage.
l. In the event of an accident wherein damage to the LIXI scope occurs, NRC will be notified immediately.

11. Disposal of material will be by return of source holders to Lixi, Inc.

CERTIFICATE OF TRAINING

RADIATION SAFETY

This is to certify that Richard Polishner, D.P.M.

has completed the **LIXI™ Radiation Safety Training Course** on file with the U.S. Nuclear Regulatory Commission.

This training was completed on: April 23, 1985

This training course was developed by Lixi, Inc. and S.A. Huber Consultants Inc. for the purpose of providing the necessary training in radiation safety and experience for LIXI™ scope users. The training was given as approved by the NRC under License Nos. 12-17503-01 and 12-18215-01.

This also certifies that the trainee has personally operated a working LIXI™ 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™ scope.

This document was prepared in conformity with Title 10, Code of Federal Regulations, and all information contained herein is true and correct to the best of our knowledge and belief.

Certified by: Lixi, Inc.

Instructor: Carol L. Bonita

Signature: Carol L. Bonita

Under License No: 12-18215-01

Date: April 23, 1985

CERTIFICATE OF TRAINING

RADIATION SAFETY

This is to certify that Michael Schwartzman, D.P.M.

has completed the **LIXI™ Radiation Safety Training Course** on file with the U.S. Nuclear Regulatory Commission.

This training was completed on: April 23, 1985

This training course was developed by Lixi, Inc. and S.A. Huber Consultants Inc. for the purpose of providing the necessary training in radiation safety and experience for LIXI™ scope users. The training was given as approved by the NRC under License Nos. 12-17503-01 and 12-18215-01.

This also certifies that the trainee has personally operated a working LIXI™ 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™ scope.

This document was prepared in conformity with Title 10, Code of Federal Regulations, and all information contained herein is true and correct to the best of our knowledge and belief.

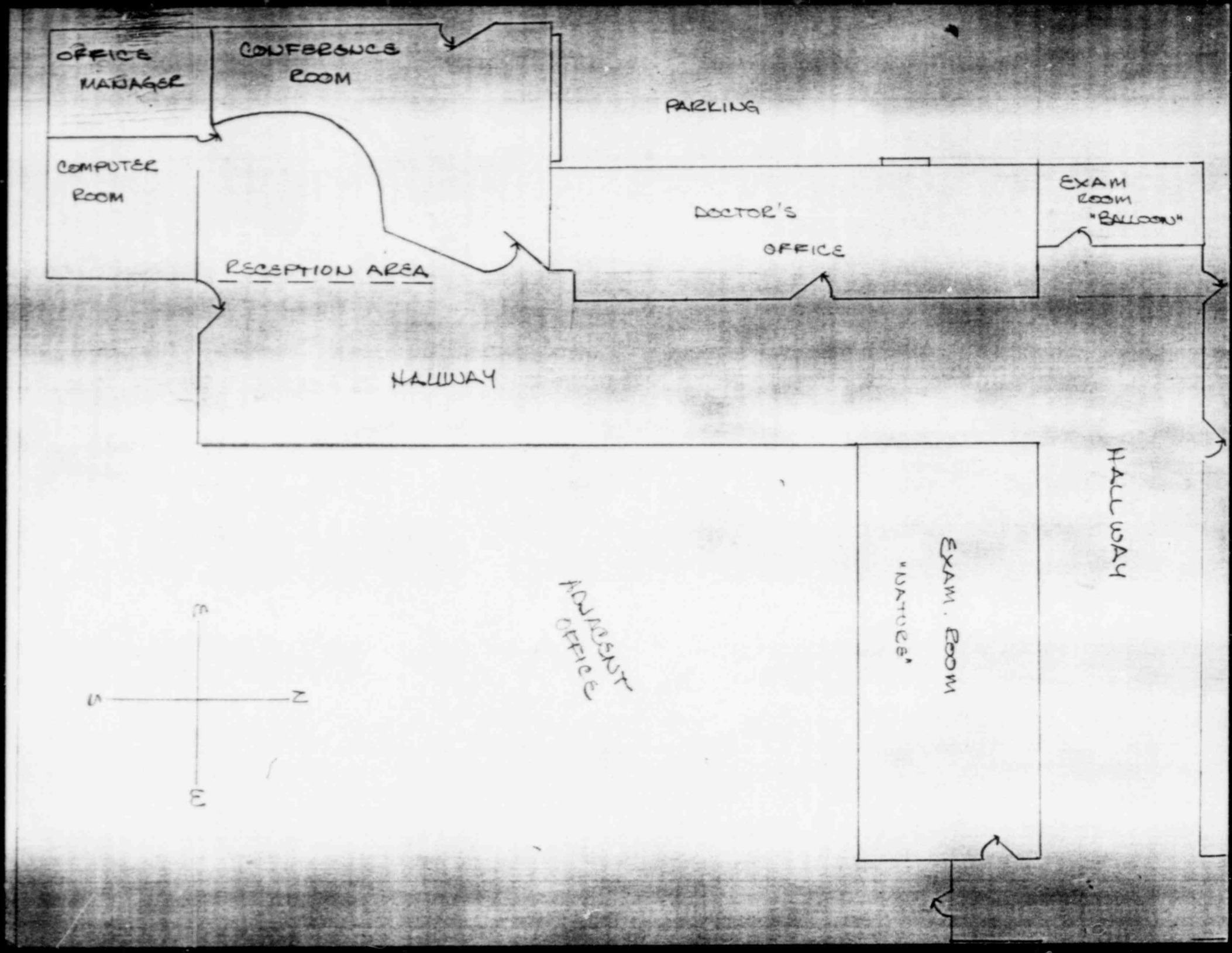
Certified by: Lixi, Inc.

Instructor: Carol L. Bonita

Signature: Carol L. Bonita

Under License No: 12-18215-01

Date: April 23, 1985


OFFICE MANAGER
CONFERENCE ROOM
PARKING
COMPUTER ROOM
EXAM ROOM "BALLOON"
DOCTOR'S OFFICE
RECEPTION AREA
HALLWAY
HALL WAY
EXAM. ROOM "NATURE"
ASSISTANT OFFICE
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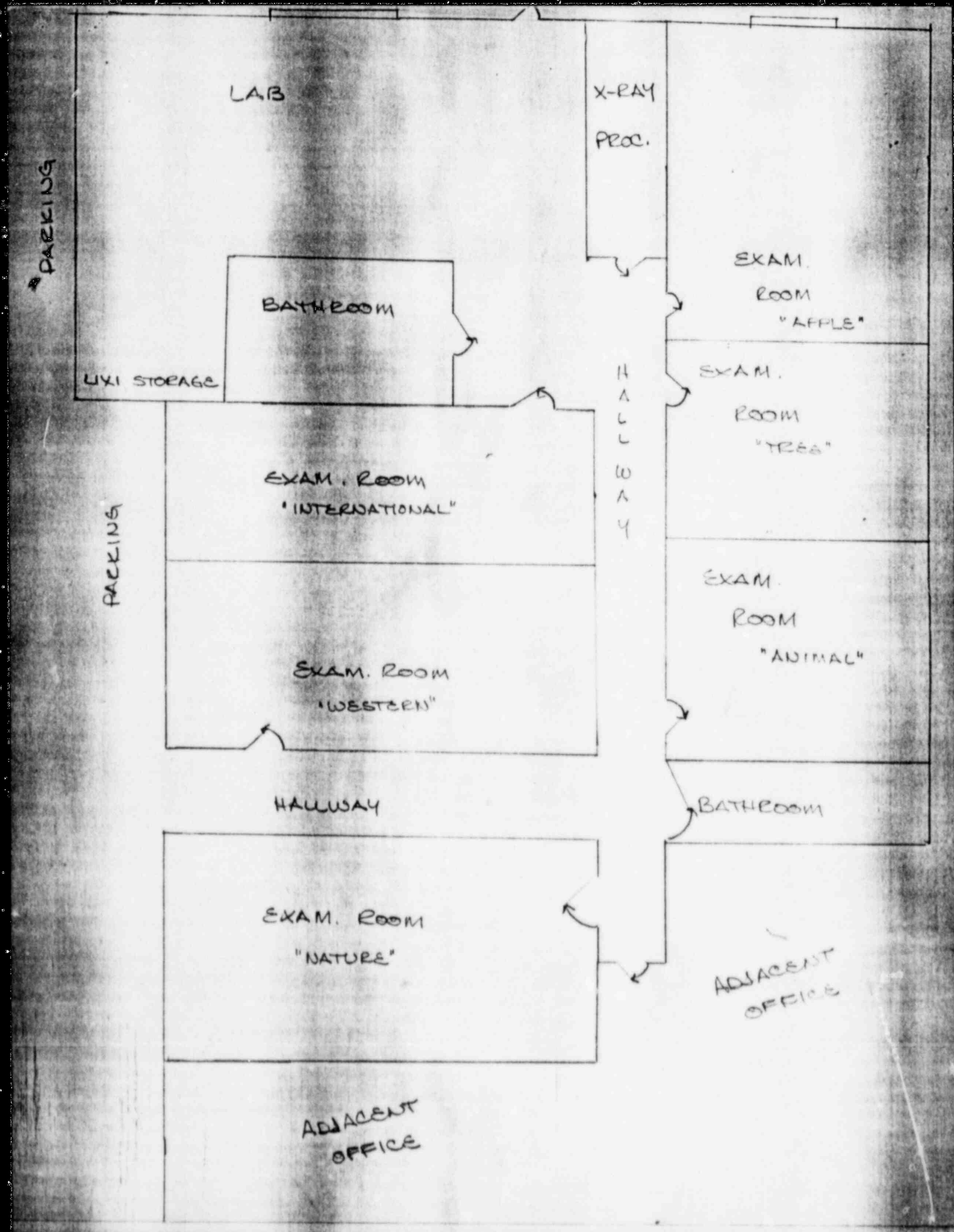
LAB
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OFFICE
ADJACENT
OFFICE

Lixiscope Accountability and Source Exchange Record

There is a separate log sheet for each Lixiscope to most easily ascertain its location at all times. It is either in storage or being used by, or under the supervision of, a specific licensed user at a specific location or destination.

Description: Lixiscope Model #_____ Serial #_____
Source Head Serial #_____ Activity_____ mCi on Calibration date_____

The "Notes" column is to be used to record the source head serial number, activity and calibration date of receipt of the new source head when it arrives from Lixi, Inc. and to indicate date of "old source returned to Lixi". Initial check-in to storage (upon original receipt of the Lixiscope) was performed by _____ (name of licensed user) on _____ (Date of receipt).

ACCOUNTABILITY RECORD

(Print or Write Legibly)

	By: Licensed User Name	To: Location or Destination	Date	NOTES (See instructions above)
Check-Out				
In		Secured in Storage		
Out				
In		Secured in Storage		
Out				
In		Secured in Storage		
Out				
In		Secured in Storage		
Out				
In		Secured in Storage		
Out				
In		Secured in Storage		
Out				
In		Secured in Storage		

Inventory Page No._____

PERMANENT SOURCE LOG

Iodine-125 Sealed Sources - Receipt, and Disposal Record

Iodine-125 Source Serial Number	Lixi Source Holder Model Number and Serial Number	Date Received	Total Activity & Calibration Date	Source Location	Date Disposed (Returned to Supplier)

Company Name_____

License No. _____

QUARTERLY PHYSICAL INVENTORY

Company Name_____
Address _____
_____

Date_____

Iodine-125 Source Serial Number	Lixi Source Holder Model Number and Serial Number	Initial Activity and Date	Source Location
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

License No. _____

Signature_____

RADIATION PROTECTION PROGRAM
(for Lixiscope Operations)

Ref: NRC 313 I

Item 10

1. Radiation Surveys

Since the source of radiation in the Lixiscope and the radioactive material (low energy I-125) are well known and controlled, it is considered unnecessary to make physical radiation surveys. The initial certification of radiation survey of the loaded source holder (Lixiscope head) is provided with each unit and should be kept on file. These certificates give the original radiation readings of each Lixiscope in the "on" and "off" positions and those radiation levels become less as the I-125 sealed source decays, until the source is again eventually replaced.

2. Records Management Program

In addition to reviewing and keeping the radiation survey records for each Lixiscope, the Radiation Safety Officer (RSO) (listed in the facility's Lixiscope NRC license application or amendments) is responsible for maintaining the following records:

a) Quarterly physical inventory of the Lixiscope(s). This condition can be met by maintaining the attached "Lixiscope Accountability and Source Exchange Record", if each Lixiscope is used at least once every 3 months or more frequently.

b) Receipt, use and disposal records. The just described "Lixiscope Accountability and Source Exchange Record" has written instructions to properly record the original Lixiscope receipt and return, as well as all subsequent source head receipt details and return dates.

c) Personnel monitoring is not required since radiation survey documentation, plus training and security requirements, indicates that it is highly unlikely any individual will receive a dose equal or greater than the radiation levels at which such monitoring is required as indicated in Title 10 Code of Federal Regulations Part 20.

d) Documentation of at least an annual radiation safety review of this written radiation protection program and the facility's Lixiscope license application and any amendments, shall be made by the RSO for all licensed users of the Lixiscope that are under his/her responsibility. Such a documented review shall also be performed with any new trained personnel.

e) License applications, amendment application copies and corresponding license and amendment documents shall be maintained in an organized manner for review at any time.

f) Semi-annual leak test records for each I-125 source head must be maintained.

3. Semi-annual Leak Tests

The semi-annual leak tests are to be performed by using the "Leak Test Kit for Sealed Sources" from S.A. Huber Consultants, Inc. - 235 Essex Lane, New Lenox, IL 60451 and following the instructions with that kit. S.A. Huber Consultants, Inc. NRC license number is 12-17503-01. Their Leak Test kits and procedures are on file with the NRC Product Certification Branch.

4. Instructions to Personnel

In addition to the radiation safety instructions already specified in this written program, all personnel using the Lixiscope must have either attended the Lixiscope Training Program or received similar documented training, as indicated in item 2d of this safety program. In this manner, all users will be well aware of the needs to:

a) Never leave the Lixiscope unattended or in an area where there is access by unauthorized personnel.

b) Be completely familiar with the Lixiscope operating manual and safety precautions, "on" and "off" indicators, etc.

c) Account for the Lixiscope at all times and return it after use to its locked storage area, which is posted with a "Caution Radioactive Material" sign.

d) Be familiar with good radiation safety practices, ALARA philosophy, and to notify the Radiation Safety Officer (RSO) immediately if any questions or problems arise. The RSO can then call Lixi, Inc.; a nuclear consultant or the NRC, if any further assistance is needed.

e) Emergency procedures, in the event of any fire, damage, loss or theft of the Lixiscope, the RSO is to be immediately notified at the phone number(s) listed below.

f) Incoming radioactive shipments (source head exchanges) are to be immediately delivered to the RSO for proper checking and records maintenance as defined earlier herein. If any package is apparently damaged, the RSO will immediately arrange to have a calibrated survey meter delivered to check the outside package radiation level prior to opening and, if proper, to check the inside and Lixiscope readings after consulting with Lixi, Inc. or a nuclear consultant.

Radiation Safety Officer: A. K. Schramm

Office Phone: 969-7714

Home Phone: 665-9238

LIXI RADIATION SAFETY TRAINING COURSE
TABLE OF CONTENTS

Revised 11/83

APPENDIX

DELETE