

LIXI

'83 FEB 22 P3:58

February 17, 1983

(3)

Mr. Paul Guinn
U.S. Nuclear Regulatory Commission
Radioisotopes Licensing Branch
Division of Material Safety and
Fuel Cycle Licensing
Washington, D.C. 20555

Re: Supplemental information for pending amend-
ment on License 12-18215-01

Dear Mr. Guinn:

This letter confirms our phone conversation of February 10, 1983, in which we requested that you add the following change to our current license amendment request.

We wish to designate Warren McGonnagle, Ph.D. as our Radiation Safety Officer, and as alternate Radiation Safety Officers, we want to designate:

Michael J. Garcia, M.D.
Bruce Van Pelt, M.S.
Robert J. Savini, M.S.

Mr. Garcia is currently our Radiation Safety Officer and his resume is on file. We have enclosed the resumes of Mr. McGonnagle and Mr. Van Pelt. We have also enclosed an updated version of Mr. Savini's resume which is currently on file.

Sincerely,

Lixi, Inc.


Robert J. Savini
Executive Vice President

RJS/kp
Enclosures

COPIES SENT TO OFF. OF
INSPECTION AND ENFORCEMENT

8311150307 831011
PDR FOIA
SHILTON83-529 PDR

Ht. 6'-1 $\frac{1}{2}$ "
Wt. 185 lbs.

Birthdate /
Health Excellent

Education: Northern Illinois University, M.D., (Physics), 1972
Northern Illinois University, B.S., (Physics) 1970

Experience: Lixi, Inc.
May 1982 to Director of Research and Development
present Was responsible for design of the image intensifier and optical system used in the Lixiscope. Worked under the direct supervision of [redacted] Ph.D. in the selection and handling of sealed isotopes for use in the Lixiscope. Received additional training in radiation safety from Stan A. Huber. Responsible for development of quality control and safety procedures at Lixi, Inc. Have experience in handling the following sealed sources:

Iodine-125	500mCi
Americium-241	200mCi
Gadolinium-153	300mCi
Cadmium-109	25mCi
Cobalt-57	10uCi
Cesium-137	10uCi
Cobalt-60	100nCi

Dec. 1972 to CTS Knights, Inc., Sandwich, Il.
1973 Development and Process Engineering
Handled customer's new designs from initial phone contact and pricing through eventual shipment. Designed filter crystals using computer aided design techniques. Justified and specified capital equipment and handled implementation and modification of equipment to suit needs. Worked on production Engineering and troubleshooting.

Filter Product and Engineering Manager
Supervised and directed two engineers, four technicians, one foreman, and about fifty production line people. Had complete P/L responsibility for about 10% of company sales. Worked with Sales to set filter marketing strategy and goals.

Sept. 1974 to Northern Illinois University, DeKalb, Illinois
May 1975 Instructor
(part time) Taught a course in "Statics and Dynamics" for the Industry and Technology Department.

(Cont'd)

June 1970 to
Dec. 1972

Northern Illinois University, DeKalb, Illinois
Graduate Research Assistant

Research work while a Graduate Assistant--Optical properties of single crystal antimony chalcogenides prepared by zone refining or a vapor phase growth method.

Published
Articles

"A Zone Refiner for Crystalline and Amorphous Sb_2Se_3 ", Phys. Stat. Sol. (b)68, K39 (1975) with C. Wood, L.R. Gilbert and C. Wood.

"Electronic Structure of Single Crystal and Amorphous Sb_2Se_3 ", Phys. Stat. Sol. (b)54 511 (1972) with J.C. Shaffer, D. Wood, J. Freeout, K. Murase and J.W. Osmon.

"The Optical Properties of Amorphous and Crystalline Sb_2O_3 ", Phys. Stat. Sol. Dec. 1972 with C. Wood and A.D. Wight.

Contributed Talks
and papers

"Optical Properties of Sb_2Se_3 Single Crystals", American Physical Society Meeting, March, 1971 (with Z. Hurych and C. Wood).

"Amorphous and Crystalline Sb_2O_3 ", American Physical Society Meeting, March, 1972 (with C. Wood).

Personal Data:

References available on request.

FORMAL TRAINING IN RADIATION SAFETY AND EXPERIENCE

Ref: NRC 313 I - Items 16 and 17

Item 16 - Training

This is to certify that the following individuals have attended the Lixiscope Training Course in accordance with the Lixi, Inc. and S. A. Huber Consultants Inc. course descriptions on file with the Nuclear Regulatory Commission:

Registry Number* (For Completion by NLR)	Names (Type or Print)	Signatures
<u>039</u>	<u>Bruce Van Pelt</u>	<u>Bruce Van Pelt</u>
<u>040</u>	<u>STANLEY P. SAKOWSKI</u>	<u>Stanley P. Sakowski</u>
<u>041</u>	<u>JOHN G. PINDRICH JR</u>	<u>John G. Pindrich Jr</u>

The above individual(s) are to be added on to the following NRC license:

Name: Lixi, Inc
 Address: 1438 Brook Drive
 City, State, Zip: Downers Grove, IL
 Telephone #: 312-620-4646

This training was completed on: 4 June 1982 (Date)

Item 17 - Experience

A brief resume is attached for each individual to be covered under items 6 and 7 on form NRC 313 I. This also certifies that such individual(s) have personally operated a working Lixiscope, under supervision, in the aforementioned course.

The applicant and any instructor executing this certificate on behalf of the 3 person(s) listed above, certify that this document is prepared in conformity with Title 10, Code of Federal Regulations, and that all information contained herein, is true and correct to the best of our 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.

Certified by: Stan A. Huber
 Date: 4 June 1982

*NATIONAL LIXISCOPE REGISTRY

NRC License #12-17503-01 S. A. Huber Consultants, Inc.,
 New Lenox, IL

Instructor Name: STAN A. HUBER
 NLR Registry No.: 001
 Under License No.: 12-17503-01 (NRC)

Validated by: Stan A. Huber
 Name: STAN A. HUBER
 Title: President (SAHCI)
 Date: 5 June 1982

NOTE: This certificate is invalid unless countersigned by the NATIONAL LIXISCOPE REGISTRY and their registry numbers are assigned.

FORMAL TRAINING IN RADIATION SAFETY AND EXPERIENCE

Ref: NRC 313 I - Items 16 and 17

Item 16 - Training

This is to certify that the following individuals have attended the Lixiscope Training Course in accordance with the Lixi, Inc. and S. A. Huber Consultants Inc. course descriptions on file with the Nuclear Regulatory Commission:

Registry Number* (For Completion by NLR)	Names (Type or Print)	Signatures
<u>010</u>	<u>WARREN J. McGENYAR</u>	<u>Warren J. McGenyar</u>
_____	_____	_____
_____	_____	_____

The above individual(s) are to be added on to the following NRC license:

Transferred to Lixi, Inc. license #12-18215-01 on June 12, 1981	Name: <u>S.A. Huber Consultants, Inc.</u> Address: <u>235 Essex Lane</u> City, State, Zip: <u>New Lenox, IL 60451</u> Telephone #: <u>815-722-8009</u>
<u>Stan A. Huber</u>	This training was completed on: <u>11 April 1981</u> (Date)

Item 17 - Experience

A brief resume is attached for each individual to be covered under items 6 and 7 on form NRC 313 I. This also certifies that such individual(s) have personally operated a working Lixiscope, under supervision, in the aforementioned course.

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*NATIONAL LIXISCOPE REGISTRY

NRC License #12-17503-01 S. A. Huber Consultants, Inc.,
New Lenox, IL

Certified by: Stan A. Huber
Date: 11 April 1981

Instructor Name: Stan A. Huber
NLR Registry No.: 001
Under License No.: 12-17503-01

Validated by: Stan A. Huber
Name: Stan A. Huber
Title: President
Date: April 13, 1981

NOTE: This certificate is invalid unless countersigned by the NATIONAL LIXISCOPE REGISTRY and their registry numbers are assigned.

ROBERT J. SAVINI

RESUME

EDUCATION

- 1958 St. Mel's High School
Chicago, Illinois
- 1963 St. Mary's College
B.S. Degree in Business Administration
- 1965 Roosevelt University
Master's Degree in Business Administration

BUSINESS EXPERIENCE

- 1963-65 I.B.M. Corporation
Central Regional Offices (then located in
Chicago, Illinois).
- Account Auditor - responsible for keeping
records of where the company's equipment
was located and auditing the monthly billings.
- 1965-77 Teletype Corporation (Subsidiary of Western
Electric Company).
- Senior Buyer for company's Purchasing Organization,
also supervised five to seven other management level
Buying Agents.
Responsible for Corporate Purchasing Procedures and
the conversion from manual to computer assisted
system.
Responsible for all company contracts, and Research
and development projects.
- 1977-81 Electronic Relays, Inc.
Vice President
- Ultimate responsibility for approval of design
projects; responsibility for all hiring and
other personnel functions; full responsibility
for setting up and implementing all accounting
procedures and selection and interface with
accounting firm; responsible for all business
relationships with banks and other financial
institutions as well as with company's customers.

(Cont'd)

Responsible for mechanical design and development of Lixiscope project. Handled all NRC and FDA licensing. From 1978 worked under direct supervision of Stan A. Huber and Michael Garcia M.D. to set up Radiation Control program and researched isotope selection for Lixiscope.

1981 to present Lixi, Inc..
Vice President

Responsible for human engineering of Lixiscope. Handled all NRC, Agreement State and FDA licensing. Since December 1981 has worked under the direct supervision of Warren McGonnagle, Ph.D. in matters of radiation safety and research and development of isotopes for use in the Lixiscope. Have experience in handling sealed sources:

Iodine-125	500mCi
Americium-241	200mCi
Cobalt-57	10uCi
Cobalt-60	100nCi
Gadolinium-153	300mCi
Cadmium-109	25mCi
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Registry Number*
(For Completion by NLR)

Names (Type or Print)

Signatures

023

Robert Savini

Robert Savini

The above individual(s) are to be added on to the following NRC license:

Name: Lixi Inc.

Address: 1438 Brook Drive

City, State, Zip: Downers Grove, Illinois 60515

Telephone #: (312) 620-4646

This training was completed on: April 11, 1981 (Date)

Item 17 - Experience

A brief resume is attached for each individual to be covered under items 6 and 7 on form NRC 313 I. This also certifies that such individual(s) have personally operated a working Lixiscope, under supervision, in the aforementioned course.

The applicant and any instructor executing this certificate on behalf of the 1 person(s) listed above, certify that

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

Certified by: *Stan A. Huber*

Date: April 11, 1981

*NATIONAL LIXISCOPE REGISTRY

NRC License #12-17503-01 S. A. Huber Consultants, Inc.,
New Lenox, IL

Instructor Name: STAN A. HUBER

NLR Registry No.: 001

Under License No.: 12-18215-01

and 12-17503-01

Validated by: *Stan A. Huber*

Name: STAN A. HUBER

Title: President

Date: 12 June 1981

NOTE: This certificate is invalid unless countersigned by the NATIONAL LIXISCOPE REGISTRY and their registry numbers are assigned.

CURRICULUM VITA

Warren J. McGonnagle, Ph.D.

Date and Place of Birth:

January 3, 1919, Newcastle, Nebraska

Undergraduate Work:

University of Nebraska
Degree: B.A. in Physics, 1940

Graduate Work:

University of Oklahoma
Degree: M.S. in Physics, 1942
University of Oklahoma
Degree: Ph.D. in Physics, 1947

Academic Positions:

Instructor in Physics
Department of Physics
University of Oklahoma
Norman, Oklahoma
September 1942 to May 1944

Instructor in Physics
Department of Physics
University of Oklahoma
Norman, Oklahoma
September 1945 to August 1947

Associate Professor of Physics
Western Michigan University
Kalamazoo, Michigan
September 1947 to August 1950

Associate Professor of Radiology
Northwestern University Medical School
Chicago, Illinois
1959 to 1974

Hospital Position:

Radiation Physicist
Department of Therapeutic Radiology
Northwestern Memorial Hospital
Wesley Pavilion
250 E. Superior Street
Chicago, Illinois 60611
January 1969 to 1974

Consultant (Radiation and
Physics) to:

Mercy Hospital
Urbana, Illinois 61801

Iowa Methodist Hospital
Des Moines, Iowa 50308

Consultant (Radiation and
Physics) to:

West Suburban Hospital

Oak Park, Illinois 60302

Margaret and Edward Hall Radiation Ctr.

Cedar Rapids, Iowa 52403

Schoitz Hospital

Waterloo, Iowa 50702

Saint Vincent Hospital

Sioux City, Iowa 51105

St. Joseph Mercy Hospital

Mason City, Iowa 50401

Ehlers Veteran's Administration Hospital
Ehlers, Illinois 60141

Veteran's Administration Research Hospital
Chicago, Illinois 60611

Industrial Positions:

Physicist

U. S. Nuclear Regulatory Commission
(successor to USAEC)
February 1975 - Present

Associate Director

Associated Midwest Universities
Argonne, Illinois
1966 - 1969

Assistant Director

Fluid Dynamics Division, IIT Research Inst.
Chicago, Illinois
1964 - 1966

Assistant Director, Electronics and
Electrical Engineering

Southwest Research Institute
San Antonio, Texas
1961 - 1964

Associate Physicist, Group Leader
Nondestructive Testing, Metallurgy Dept.
Argonne National Laboratory
Argonne, Illinois
1950 - 1961

Industrial Positions:

Junior Physicist
Manhattan Project
Tennessee Eastman Co.
Oak Ridge, Tennessee
1944 - 1945

Spectroscopy Laboratory
Massachusetts Institute of Technology
Summer, 1942