NRC FORM 374
(10-89)

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 42

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-[illegible]), 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. The University of Oklahoma Health Sciences Center	In accordance with letter dated May 1, 1997
2. P.O. Box 26901 Oklahoma City, Oklahoma 73190	3. License number 35-03176-01 is amended in its entirety to read as follows:
	4. Expiration date January 31, 2002
	5. Docket or Reference No 030-02885

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. Any byproduct material with Atomic Numbers 3-83, inclusive	A. Any, except sealed sources	A. Not to exceed 400 millicuries per radionuclide, except: Carbon-14 1 curies Hydrogen-3 10 curies
B. Any byproduct material with Atomic Numbers 3-83 with half life of less than 120 days	B. Any, except sealed sources	B. Not to exceed 900 millicuries per radionuclide
C. Any byproduct material with Atomic Numbers 3-83, inclusive	C. Any, sealed source, plated source, foil, wire, or plaque	C. Not to exceed 2 curies per sealed source, plated source, foil or wire
D. Uranium	D. Depleted Uranium	D. 200 kilograms

9. Authorized use:

A. through C. Research and development, as defined in 10 CFR Part 30, calibration of licensees survey instruments, tracer studies in animals, and training of personnel.

D. Shielding

930275

ML40

OFFICIAL RECORD COPY

CONDITIONS

10. Location of use:

A. University of Oklahoma, Health Sciences Center, 1000 Stanton L. Young Blvd., Library-176, Oklahoma City for materials in Items 6.A through 6.D.

B. Dean A. McGee Eye Institute, 608 Stanton L. Young Boulevard, Oklahoma City, Oklahoma, for materials in Items 6.A through 6.D.

C. William K. Warren Medical Research Institute, 6465 South Yale Avenue, Suite 1010, Tulsa, Oklahoma for materials in Item 6.A through 6.D.

D. University of Oklahoma, College of Medicine-Tulsa, Oklahoma Campus, 2815 S. Sheridan Road, Tulsa, Oklahoma, for materials in Items 6.A through 6.D.

E. Physicians Building East, Saint Johns Medical Center, OU Department of Surgery Research Laboratory, 1725 East 19th, Suite LL-104, Tulsa, Oklahoma for materials in Items 6.A through 6.D.

F. The Research Park Building One, 800 North Research Parkway, 4th floor, Oklahoma City, Oklahoma, for materials in Items 6.A through 6.D.

11. The Radiation Safety Officer for this license is Mary X. Jia, M.S.

12. Licensed material shall be used by, or under the supervision of, The University of Oklahoma, Health Sciences Center, Radiation Safety Committee, Kenneth E. Blick, Ph.D., Chairperson.

13. Licensed material shall not be used in or on human beings.

14. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.

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.

16. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

17. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.

18. This license does not authorize distribution to persons licensed pursuant to 10 CFR 35.100, 10 CFR 35.200, 10 CFR 35.300, 10 CFR 35.400, 10 CFR 35.500, or 10 CFR 35.600.

19. This license does not authorize commercial distribution of licensed material.

20. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

21. A. Detector cells containing a titanium tritide foil or a scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents the foil temperature from exceeding that specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.

B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.

22. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.

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 3 months.

C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 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 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

22. (Continued)

(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 transferred 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 leak 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 in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.

G. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

23. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of unsealed licensed material to quantities less than 10^4 per the provisions of 10 CFR 30.35(d).

24. The licensee shall not acquire licensed material in a sealed source or device that contains a sealed source unless the source or device has been registered with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number 35-03176-01

Docket or Reference Number 030-02885

Amendment No. 42

25. 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 U.S. 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 April 21, 1994
B. Letter dated Septebmer 4, 1996
C. Letter dated September 12, 1996
D. Letter dated May 1, 1997
E. Letter dated May 2, 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAY 12 1997

By _____

Jack E. Whitten
Nuclear Materials Licensing Branch
Region IV
Arlington, Texas 76011

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

May 12, 1997

The University of Oklahoma
Health Sciences Center
ATTN: Mary X. Jia, M.S.
Radiation Safety Officer
P. O. Box 26901
Oklahoma City, Oklahoma 73190

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. 35-03176-01, Amendment 42, and 35-03176-06, Amendment 15. You should review these licenses carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at (817)860-8120.

In reference to your request to add Mr. Dick Trim as the Assistant Radiation Safety Officer (ARSO), please be aware that the NRC does not recognize ARSOs. Ms. Jia may delegate duties to assist her but may not delegate responsibility for the radiation safety program.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.

2. Possess radioactive material only in the quantity and form indicated in your license.

3. Use radioactive material only for the purpose(s) indicated in your license.

4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).

5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any other planned changes in your facility or program that are contrary

to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:

   - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.

   - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.

   - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.

   - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.

   - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.

7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.

8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the

"General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), 60 FR 34381, June 30, 1995.

Thank you for your cooperation.

Sincerely,

Billie Gruszynski

Billie Gruszynski (Ms.)
Nuclear Material Licensing Branch

Docket: 030-02885
030-19258
License: 35-03176-01
35-03176-06
Control: 466387
466390

Enclosures: As stated

DOCUMENT NAME: UOFOKLA.CVR

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:NMLB	N								
BGruszynski									
05/12/97		05/ /97		05/ /97		05/ /97		05/ /97	

OFFICIAL RECORD COPY

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

May 7, 1997

The University of Oklahoma
Health Sciences Center
ATTN: Joseph J. Ferretti, Ph.D.
Sr. Vice President and Provost
P. O. Box 26901
Oklahoma City, Oklahoma 73190

SUBJECT: ACKNOWLEDGMENT OF REQUEST FOR LICENSING ACTION

REFERENCE: LETTER DATED MAY 1, 1997

We have completed the administrative review and initial processing of your application.

During the initial processing, no omissions/deficiencies were identified. Please note that the technical review may identify additional omissions in the submitted information or technical issues that require additional information.

Amendment actions are normally processed within 60 days, unless the technical review identifies:

- Major technical deficiencies
- Decommissioning/decontamination activities are required before an application can be completed
- Confirmatory closeout surveys after decontamination/decommissioning activities are required before a license can be terminated or a facility removed from the license
- Policy issues are identified that require input and coordination with other NRC Regional offices, Agreement State offices, or NRC's Office of Nuclear Materials and Safeguards

A copy of your correspondence has been forwarded to our License Fee and Accounts Receivable Branch, Office of the Controller, who will contact you separately if the appropriate license fee has not been submitted for your request, or for billing if your request is subject to full cost recovery.

Any correspondence about this application should reference the Control number listed below.

Sincerely,

Billie Gruszynski

Billie Gruszynski (Ms.)
Nuclear Materials Licensing Branch

License: 35-03176-01
35-03176-04MD
35-03176-05
35-03176-06
35-21035-01

Control: 466391
466388
466389
466390
466387

The University of Oklahoma

Health Sciences Center

RADIATION SAFETY OFFICE

May 2, 1997

Mr. Jack Whitten
Senior Health Physicist
Nuclear Material Licensing Section
Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

Re: **LETTER OF INFORMATION** Regarding NRC Licenses: #35-03176-01
#35-03176-04MD
#35-03176-05
#35-03176-06
#35-21035-01

Dear Mr. Whitten:

This letter will serve as a follow-up to our telephone conversation and the letter from Dr. Ferretti regarding the appointments of Ms. Mary Jia, M.S., and Mr. Dick Trim as Interim Radiation Safety Officer and Assistant Radiation Safety Officer respectively. Today the Radiation Safety Committee approved the appointments. Copies of the appointees' curriculum vitae are attached.

We are processing checks for amendment fees for the changes. These will be remitted next week. If I can be of any assistance, please feel free to contact me.

Sincerely,

Tom Godkins, M.P.H.
Assistant Vice President

/lsv

c: Joseph J. Ferretti, Ph.D., Senior Vice President and Provost
Mary X. Jia, M.S., Interim Radiation Safety Officer
Scott Sproat, M.P.H., Assistant Vice President for Specialty Services
Stan Mills, Ph.D., Director, Nuclear Pharmacy

Attachments

Nrc5297.ltr

Curriculum Vitae

Mary X. Jia

(Revised April 1997)

Curriculum Vitae

Vitae Statistics:

Name:	Mary X. Jia
SS#:	137-82-5946
Date of Birth:	05/28/64
Citizenship:	China (U.S.A. permanent residence)
Marital Status:	Married
Spouse:	Gregory
Child:	Nathan Wae, 1/20/95

Education:

M.S. Radiological Sciences, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, 1995.
Thesis: Electron Dose Rate Distribution from Radioiodine in the Thyroid Follicle

M.S. Industrial & Applied Physics, University of Central Oklahoma, Edmond, Oklahoma, 1989.

B.S. Mechanical Engineering, Beijing University of Science & Technology, Beijing, China, 1985.

Professional Experience:

Assistant Radiation Safety Officer, Office Manager (since 1996), University of Oklahoma Health Sciences Center, The University Hospitals and Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, Aug. 1991- present.

Radiation Safety Technician (50%), University of Oklahoma Health Sciences Center, The University Hospitals and Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, Feb. 1991 - Aug. 1991.

Graduate Student Assistant (50%), Radiation Therapy Department, University Hospital, Oklahoma City, Oklahoma. Performed part of the quality assurance tests for the Linac 6 machine, the Co-60 machine, and the 25 MeV machine, 1989 - 1990.

Graduate Teaching Assistant (50%), Physics Department, University of Central Oklahoma, Edmond, Oklahoma. Taught undergraduate electronic and optics laboratory (Physics II lab), 1988 - 1989.

Scientific English Instructor, Language Department, Beijing University of Science and Technology, Beijing, China. Taught college students scientific English, 1985 - 1987.

Memberships & Honors:

Member of American Association of Physics in Medicine (AAPM), (since 1990).

Member of Sigma Pi Sigma Physics Honor Society, (since 1988).

G. D. Adams Scholarship, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, (1989 to 1990).

American Who's Who Outstanding Graduate Student, (1988).

Dean's Honor Roll, University of Central Oklahoma, Edmond, Oklahoma, (1988).

Academic Scholarship, Beijing, China, (1983 to 1984).

Teaching Activities:

1. Course Participation:

Spring 1997, presented lectures on Radiation Detection: Principle of Detection & Gas Detectors to the nuclear medicine technology students.

1996, 1997, **Clinical Nuclear Medicine**, RLTN # 3560/4560, Clinical Instructor, Radiation Safety Office rotation.

Fall 1996, presented a lecture regarding **NRC, NCRP & FDA** to the radiation therapy technology students.

Fall 1996, presented a lecture regarding **Scintilation Detectors** to the nuclear medicine technology students.

Spring 1995, **Nuclear Medicine Instrumentation**, RLTN # 4513, involved in the experiments portion of the course.

2. Other:

1992 - present, provide monthly/quarterly Radiation Safety Training to new researchers who will use radioactive materials.

1992 - present, provide radiation safety training to nursing staff on monthly/quarterly basis.

1992 - present, provide annual radiation safety training to all researchers, nuclear medicine technologists, radiation therapy physicians, physicists and technologists, operating room personnel, housekeeping personnel, police officers, etc.

Radiation Technology students orientation.

3. Teaching materials developed:

Monthly/quarterly new employee training materials.

Monthly/quarterly nurse training materials (see attached topics).

Operating room nurse training materials.

Housekeeping training materials.

Police officer training materials.

Nuclear Medicine and Radiation Therapy Department Quality Management Program training materials.

Experiment material for Nuclear Medicine Instrumentation course.

Research:

Radioiodine electron dosimetry in the thyroid follicle, 1990 -1995.

Publication:

M. X. Jia, V. J. Ficken, E. W. Allen & J. R. Prince. Micro Dose Distribution in the Thyroid Follicle, A Review Method Based on An Anatomical Distribution of Radioiodine in the Follicle Lumen. Clinical Nuclear Medicine, 1991, 17:143 suppl. (Abstract).

University Governance:

Radiation Safety Committee, University of Oklahoma Health Sciences Center, and The University Hospitals.

The University Hospitals Safety Committee.

Institutional Animal Care and Use Committee (IACUC), University of Oklahoma Health Sciences Center.

Administration:

Assistant Director, Radiation Safety Office.

Office Manager, Radiation Safety Office.

Nurses Inservice

University Hospital

1993	
Jan.	Precautions for Nurses in Care if I-131 Therapy Patients
Feb.	Radiation Detection Badges and Exposure to Ionizing Radiation
Mar.	Evaluation of Personnel Radiation Dosimetry
Ap.	Precautions to be Taken with Brachytherapy Patients
May	I-192 Brachytherapy Emergency Response and NRC Accident Reports
June	Units in Radiation Protection
July	Background Radiation
Aug.	Radiation Detectors
Sept.	Training of Nurses Responsible for the Care of Patients with Brachytherapy Implants
Oct.	What is Radiation?
Nov.	Radiation Detection Badges
Dec.	Radiation Protection - Shielding
1994	
Jan.	Precautions for Nurses in Care of I-131 Therapy Patients
Feb.	Radiation Protection and the Pregnant Worker
March	Radiation Badge Reports
Ap.	The Nurse's Role in Caring for Radiation Therapy Patients: Brachytherapy
May	The Nurse's Role in Caring for Radiation Therapy Patients: I-131 Therapy
June	Demonstration of Brachytherapy Apparatus
July	I-131 Properties - - Uptake, Retention, and Excretion
Aug.	Risk and Safety
Sept.	Radiation Detection Badges
Oct.	Radiation Protection--Shielding
Nov.	Radiation Protection and the Pregnant Worker
Dec.	Units in Radiation Protection

Nurses Inservice
University Hospital

1995	
Jan.	None
Feb.	Nurse's Role in Caring for Radiation Therapy Patients (Iodine-131 Therapy)
March	Ocular Radiation Therapy - I-125
April	Ocular Radiation Therapy - What is COMS? - Associated Risks
May	Brachytherapy Patients -- Emergency Procedures
June	Geiger Counters -- Demonstration of Correct Usage
July	Effects of Radiation
Aug.	Radiation Units
Sept.	I-131 Therapy and Related Exposure Levels
Oct.	Ocular Radiation Therapy with Iodine-125
Nov.	Why Radiation Safety Inservices?
Dec.	None
1996	
Jan.	None
Feb.	Radiation Safety Considerations for Post - Iodine-131 Therapy
March	None
April	None
May	Risk Associated with Radiation
June	Special Training Handout Concerning Shielding
Aug.	Radioisotopes Encountered by Nurses at UH-9W
Dec.	Video: Radiation Risks Revisited

CURRICULUM VITAE

Dick L. Trim

I. VITAL STATISTICS:

S.S. Number: 509-52-7653
Date of Birth: February 17, 1949
U.S. Citizen
Married
Wife's Name: Leanna

II. EDUCATION:

M.S. Completing thesis	Oklahoma University Health Sciences Center Medical Radiation Physics
M.S.	Emporia State University, 1974 Physics (thesis incomplete)
B.S.	Kansas State Teachers College, 1971 Physics and Mathematics

III. PROFESSIONAL EXPERIENCE:

Health Physicist
Oklahoma University Health Sciences Center
Oklahoma City, Oklahoma
1993 - Present

President and Owner
Togco, Inc.
Shawnee, Oklahoma
1984 - 1993

Radiation Safety Officer/Field Engineer
Mayfield Logging
Shawnee, Oklahoma 1982 - 1984

Cased Hole Supervisor/Radiation Safety Officer/Senior Field Representative
Welex
Shawnee, Oklahoma
1974 - 1982

IV. MEMBERSHIPS AND HONORS:

Sigma Pi Sigma
American Association of Physicists in Medicine

V. TEACHING ACTIVITIES:

Clinical Instructor
Advanced Nuclear Medicine Techniques, RLTN 4560
Oklahoma University Health Sciences Center
Oklahoma City, Oklahoma
January, 1996 - Present

Instructor
Training for New Laboratory Employees
Radiation Safety Office
Oklahoma University Health Sciences Center
Oklahoma City, Oklahoma
January, 1994 - Present

Instructor
Training for Nurses at University Hospital
Radiation Safety Office
Oklahoma University Health Sciences Center
Oklahoma City, Oklahoma
January, 1994 - Present

Laboratory Instructor
Nuclear Medicine Instrumentation, RLTN 4513
Oklahoma University Health Sciences Center
Oklahoma City, Oklahoma
January, 1995 - May, 1995

VI. RESEARCH:

Effective Doses from Temporomandibular Joint Imaging Using Three Tomographic Motions
Major Researcher

VII. PROFESSIONAL SERVICE:

Instructor

Annual Radiation Safety Training
Oklahoma University Health Sciences Center
Oklahoma City, Oklahoma
December, 1993 - Present

Instructor

Annual Radiation Safety Training
Oklahoma Medical Research Facility
Oklahoma City, Oklahoma
December, 1994 - Present

Lecturer

"Geiger Counters"
Absorption of Ionizating Radiation, RAD I 5823
Oklahoma University Health Sciences Center
January 22, 1997

Lecturer

"History of Fashion" (one to three lectures)
"Physics" (lectures, demonstrations, and/or student experiments)
"The Temporomandibular Joint"
Liberty Academy
Shawnee, Oklahoma
1992 - Present

Lecturer

Central State University Students
"Medical Physics"
Given at Oklahoma University Health Sciences Center
April 14, 1995

VIII. PROFESSIONAL GROWTH AND DEVELOPMENT:

Nonionizing Radiation, OUHSC
Health Organization and Administration, OUHSC
Annual Hazard Communication/Office Safety Training, 1994, 1995, 1996
Annual Bloodborne Pathogen Training, 1994, 1995, 1996

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 01100
Status Code: 0
Fee Category: EX 3L
Exp. Date: 20020131
Fee Comments: 170.11(A)(4)8/23/93 T
Decom Fin Assur Reqd: Y

1997 MAY -6 PM 1:29

LICENSE FEE TRANSMITTAL

A. REGION IV

1. APPLICATION ATTACHED
Applicant/Licensee: OKLAHOMA, UNIVERSITY OF
Received Date: 970501
Docket No: 3002885
Control No.: 466387
License No.: 35-03176-01
Action Type: Amendment

RECEIVED
MAY - 9 1997
REGION IV

2. FEE ATTACHED
Amount: 4
Check No.: 4

3. COMMENTS

Signed Billie Gruszynski
Date 5/2/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / LF)

1. Fee Category and Amount: EX 3L FEE EXEMPT 170-11(A)(4)

2. Correct Fee Paid. Application may be processed for:
Amendment ✓
Renewal
License

3. OTHER

Signed Kitty Messler
Date 5/7/97

RECEIVED BY LFMS
Date 5/6/97
Log Mail IV
By Kem
Date Completed 5/7/97

The University of Oklahoma
Health Sciences Center
RADIATION SAFETY OFFICE

MEMORANDUM

TO: Joseph J. Ferretti, Ph.D.
Senior Vice President and Provost

FROM: Subhash Danak, M.S., D.A.B.R.
Radiation Safety Officer

DATE: April 18, 1997

SUBJECT: Resignation

I would like to thank you and Dr. Waxman for the support both of you provided to me during my employment as Radiation Safety Officer and Director of the Radiation Safety Office.

I would also like to thank the Radiation Safety Committee, especially Drs. Allen, Leonard, Blick, Chandler, and Chacko as chairmen of the RSC for providing strong leadership when it was most needed.

I have decided to resign from my position effective May 2, 1997.

/lsv

c: Frank J. Waxman, Ph.D., Vice President for Research

Tom Godkins, M.P.H., Assistant Vice President

Scott Sproat, M.P.H., Administrator, TUH

K.D. Blick, Ph.D., Chairman, Radiation Safety Committee

William G. Thurman, M.D., President, OMRF

Naomi Esmon, Ph.D., Chairman, OMRF Radiation Safety Committee

✓ Linda Howell, Nuclear Regulatory Commission Region IV

The University of Oklahoma
Health Sciences Center
OFFICE OF THE SENIOR VICE PRESIDENT AND PROVOST

May 1, 1997

Mr. Jack Whitten
Senior Health Physicist
Nuclear Material Licensing Section
Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

Re: **LETTER OF INFORMATION** Regarding NRC Licenses: #35-03176-01
#35-03176-04MD
#35-03176-05
#35-03176-06
#35-21035-01

Dear Mr. Whitten:

As you know, Mr. Subhash Danak will be resigning as RSO effective May 2. Therefore, this letter is to inform you that Ms. Mary X. Jia, M.S. will be appointed as Interim Radiation Safety Officer for the University of Oklahoma Health Sciences Center effective May 2, 1997. Also, on that date, Mr. Dick L. Trim will be appointed as Interim Assistant Radiation Safety Officer. We anticipate approval of this action at the Radiation Safety Committee Meeting on May 2 and will notify you following the meeting regarding the appointments. A copy of Ms. Jia's curriculum vitae is attached.

These are very credible and hardworking people, who, we believe, will do an outstanding job. We respectfully request the approval of the NRC on this action. If I can assist you in any way, please feel free to contact me.

Sincerely,

Joseph J. Ferretti, Ph.D.
Senior Vice President and Provost

/lsv

c: Tom Godkins, M.P.H., Assistant Vice President
Radiation Safety Committee

Attachments

Nrc5197.ltr

Post Office Box 26901 • Oklahoma City, Oklahoma 73190 • (405) 271-2332 • FAX (405) 271-3151

The University of Oklahoma

Health Sciences Center

RADIATION SAFETY OFFICE

MEMORANDUM

TO: Joseph J. Ferretti, Ph.D.
Senior Vice President and Provost

FROM: Subhash Danak, M.S., D.A.B.R.
Radiation Safety Officer

DATE: April 18, 1997

SUBJECT: Resignation

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/lsv

c: Frank J. Waxman, Ph.D., Vice President for Research

Tom Godkins, M.P.H., Assistant Vice President

Scott Sproat, M.P.H., Administrator, TUH

K.D. Blick, Ph.D., Chairman, Radiation Safety Committee

William G. Thurman, M.D., President, OMRF

Naomi Esmon, Ph.D., Chairman, OMRF Radiation Safety Committee

Linda Howell, Nuclear Regulatory Commission Region IV

Curriculum Vitae

Mary X. Jia

(Revised April 1997)

Curriculum Vitae

Vitae Statistics:

Name:	Mary X. Jia
SS#:	137-82-5946
Date of Birth:	05/28/64
Citizenship:	China (U.S.A. permanent residence)
Marital Status:	Married
Spouse:	Gregory
Child:	Nathan Wae, 1/20/95

Education:

M.S. Radiological Sciences, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, 1995.
Thesis: Electron Dose Rate Distribution from Radioiodine in the Thyroid Follicle

M.S. Industrial & Applied Physics, University of Central Oklahoma, Edmond, Oklahoma, 1989.

B.S. Mechanical Engineering, Beijing University of Science & Technology, Beijing, China, 1985.

Professional Experience:

Assistant Radiation Safety Officer, Office Manager (since 1996), University of Oklahoma Health Sciences Center, The University Hospitals and Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, Aug. 1991- present.

Radiation Safety Technician (50%), University of Oklahoma Health Sciences Center, The University Hospitals and Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, Feb. 1991 - Aug. 1991.

Graduate Student Assistant (50%), Radiation Therapy Department, University Hospital, Oklahoma City, Oklahoma. Performed part of the quality assurance tests for the Linac 6 machine, the Co-60 machine, and the 25 MeV machine, 1989 - 1990.

Graduate Teaching Assistant (50%), Physics Department, University of Central Oklahoma, Edmond, Oklahoma. Taught undergraduate electronic and optics laboratory (Physics II lab), 1988 - 1989.

Scientific English Instructor, Language Department, Beijing University of Science and Technology, Beijing, China. Taught college students scientific English, 1985 - 1987.

Memberships & Honors:

Member of American Association of Physics in Medicine (AAPM), (since 1990).

Member of Sigma Pi Sigma Physics Honor Society, (since 1988).

G. D. Adams Scholarship, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, (1989 to 1990).

American Who's Who Outstanding Graduate Student, (1988).

Dean's Honor Roll, University of Central Oklahoma, Edmond, Oklahoma, (1988).

Academic Scholarship, Beijing, China, (1983 to 1984).

Teaching Activities:

1. Course Participation:

Spring 1997, presented lectures on Radiation Detection: Principle of Detection & Gas Detectors to the nuclear medicine technology students.

1996, 1997, **Clinical Nuclear Medicine**, RLTN # 3560/4560, Clinical Instructor, Radiation Safety Office rotation.

Fall 1996, presented a lecture regarding **NRC, NCI[illegible] FDA** to the radiation therapy technology students.

Fall 1996, presented a lecture regarding **Scintilation Detectors** to the nuclear medicine technology students.

Spring 1995, **Nuclear Medicine Instrumentation**, RLTN # 4513, involved in the experiments portion of the course.

2. Other:

1992 - present, provide monthly/quarterly Radiation Safety Training to new researchers who will use radioactive materials.

1992 - present, provide radiation safety training to nursing staff on monthly/quarterly basis.

1992 - present, provide annual radiation safety training to all researchers, nuclear medicine technologists, radiation therapy physicians, physicists and technologists, operating room personnel, housekeeping personnel, police officers, etc.

Radiation Technology students orientation.

3. Teaching materials developed:

Monthly/quarterly new employee training materials.

Monthly/quarterly nurse training materials (see attached topics).

Operating room nurse training materials.

Housekeeping training materials.

Police officer training materials.

Nuclear Medicine and Radiation Therapy Department Quality Management Program training materials.

Experiment material for Nuclear Medicine Instrumentation course.

Research:

Radioiodine electron dosimetry in the thyroid follicle, 1990 -1995.

Publication:

M. X. Jia, V. J. Ficken, E. W. Allen & J. R. Prince. Micro Dose Distribution in the Thyroid Follicle, A Review Method Based on An Anatomical Distribution of Radioiodine in the Follicle Lumen. Clinical Nuclear Medicine, 1991, 17:143 suppl. (Abstract).

University Governance:

Radiation Safety Committee, University of Oklahoma Health Sciences Center, and The University Hospitals.

The University Hospitals Safety Committee.

Institutional Animal Care and Use Committee (IACUC), University of Oklahoma Health Sciences Center.

Administration:

Assistant Director, Radiation Safety Office.

Office Manager, Radiation Safety Office.

Nurses Inservice

University Hospital

1993

Jan.	Precautions for Nurses in Care if I-131 Therapy Patients
Feb.	Radiation Detection Badges and Exposure to Ionizing Radiation
Mar.	Evaluation of Personnel Radiation Dosimetry
Ap.	Precautions to be Taken with Brachytherapy Patients
May	I-192 Brachytherapy Emergency Response and NRC Accident Reports
June	Units in Radiation Protection
July	Background Radiation
Aug.	Radiation Detectors
Sept.	Training of Nurses Responsible for the Care of Patients with Brachytherapy Implants
Oct.	What is Radiation?
Nov.	Radiation Detection Badges
Dec.	Radiation Protection - Shielding

1994

Jan.	Precautions for Nurses in Care of I-131 Therapy Patients
Feb.	Radiation Protection and the Pregnant Worker
March	Radiation Badge Reports
Ap.	The Nurse's Role in Caring for Radiation Therapy Patients: Brachytherapy
May	The Nurse's Role in Caring for Radiation Therapy Patients: I-131 Therapy
June	Demonstration of Brachytherapy Apparatus
July	I-131 Properties - - Uptake, Retention, and Excretion
Aug.	Risk and Safety
Sept.	Radiation Detection Badges
Oct.	Radiation Protection--Shielding
Nov.	Radiation Protection and the Pregnant Worker
Dec.	Units in Radiation Protection

Nurses Inservice
University Hospital

1995

Jan.	None
Feb.	Nurse's Role in Caring for Radiation Therapy Patients (Iodine-131 Therapy)
March	Ocular Radiation Therapy - I-125
April	Ocular Radiation Therapy - What is COMS? - Associated Risks
May	Brachytherapy Patients -- Emergency Procedures
June	Geiger Counters -- Demonstration of Correct Usage
July	Effects of Radiation
Aug.	Radiation Units
Sept.	I-131 Therapy and Related Exposure Levels
Oct.	Ocular Radiation Therapy with Iodine-125
Nov.	Why Radiation Safety Inservices?
Dec.	None

1996

Jan.	None
Feb.	Radiation Safety Considerations for Post - Iodine-131 Therapy
March	None
April	None
May	Risk Associated with Radiation
June	Special Training Handout Concerning Shielding
Aug.	Radioisotopes Encountered by Nurses at UH-9W
Dec.	Video: Radiation Risks Revisited