NRC FORM 374
(10-89)

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 15

MATERIALS LICENSE

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, 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 35-03176-06 is amended in its entirety to read as follows:
	4. Expiration date June 30, 1993
	5. Docket or Reference No 030-19258

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. Cobalt-60	A. Teletherapy sealed sources (Picker Corporation Model P-3802A)	A. 1,570 curies (2 sources of not more than 785 curies each)
B. Cobalt-60	B. Teletherapy sealed sources (Neutron Products, Inc. Model NPTT-Series)	B. 1,600 curies (2 sources of not more than 800 curies each)

9. Authorized use

A. and B. One source to be used in a Keleket-Barnes Floorstand teletherapy unit for teaching and training of students and for irradiation of biological specimens or inanimate objects (excluding explosives and highly flammable materials). One source in its shipping container to be in possession of the licensee as necessary for the replacement of the source in the teletherapy unit only.

CONDITIONS

10. Licensed material shall be used only at the licensee's facility located in Room 49, College of Health, University of Oklahoma, 801 NE 13th Street, Oklahoma City, Oklahoma.

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OFFICIAL RECORD COPY

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11. Licensed material shall be used by, or under the supervision of, Mary X. Jia, M.S., Carole Sullivan, B. Wally Ahluwalia, Ph.D., or individuals approved by the University of Oklahoma Health Sciences Center Radiation Safety Committee, Kenneth E. Blick, Ph.D., Chairman.

12. The Radiation Safety Officer for this license is Mary X. Jia.

13. A. Teletherapy sources shall be tested for leakage at intervals not to exceed 6 months. Records of test results shall be kept in units of microcuries and maintained for inspection by the Commission. In the absence of a certificate from a transferor indicating that a test has been made within 6 months prior to the transfer, a source received from another person shall not be used until tested for leakage.

    B. The test shall be sufficiently sensitive to detect 0.005 microcurie of contamination on the test sample.

    C. The test sample shall be taken from selected accessible surfaces of the teletherapy head. The selected accessible surfaces should be those surfaces on which one might expect contamination (if there were to be leakage) to accumulate and shall include the inner surface of the most frequently used treatment cones or beam collimating device. The test sample shall be taken with the source in the "off" position.

    D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall promptly take action to prevent spread of contamination and shall file a report within 5 days of the test with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards, describing the test results and the corrective action taken.

14. Before initiation of a training or irradiation program, each teletherapy unit shall be equipped with electrical or mechanical stops limiting use of the primary beam of radiation so as to ensure compliance with Section 20.1301 of 10 CFR Part 20 as evidenced by a radiation survey. Necessary use restrictions shall be fully described in radiation survey reports submitted in accordance with Condition No. 16 of this license.

15. A set of written emergency instructions shall be posted at the teletherapy machine control. These instructions shall inform the machine operator of the procedure to be followed should he be unable to turn the machine's primary beam of radiation "off" with the controls outside the treatment room.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
35-03176-06
Docket or Reference Number
030-19258
Amendment No. 15

16. A. Access to the teletherapy room shall be controlled by a door at each entrance. Such doors shall be normally closed.

B. Each entrance to the teletherapy room shall be equipped with an electrical interlock system that will turn the teletherapy machine's primary beam of radiation "off" immediately upon opening of any entrance door. The interlock system shall be connected in such a manner that the teletherapy machine's primary beam of radiation cannot be turned "on" until all treatment room entrance doors are closed and the beam "on-off" control is reset at the control panel.

C. Electrical interlocks on entrance doors to the teletherapy room shall be tested for proper operation at least once every 6 months. Records of test results shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.

D. In the event of malfunction of any door interlock, the teletherapy machine control shall be locked in the "off" condition and not used, except as may be necessary for repair or replacement of the interlock system, until the interlock system is shown to be functioning properly.

17. Before initiation of a training or irradiation program, and subsequent to each installation of a teletherapy source, radiation surveys and tests shall be performed in accordance with the following:

A. A radiation survey shall be made of:

(1) The teletherapy source housing, with the teletherapy source in the "off" position. The maximum and average radiation levels at one meter from the teletherapy source in the "off" position shall not exceed 10 milliroentgens per hour and 2 milliroentgens per hour, respectively.

(2) All areas adjacent to the treatment room with the teletherapy source in the "on" position. The survey, except Item c., shall be performed with a phantom in the primary beam of radiation and shall clearly establish:

a. That radiation levels in restricted areas are not likely to cause personnel exposure in excess of the limits specified in Section 20.1201 of 10 CFR Part 20.

b. That quantities of radiation in unrestricted areas do not exceed the limits specified in Section 20.1301 of 10 CFR Part 20.

c. The intensity of the primary beam of radiation at a specified distance from the teletherapy source.

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17. (Continued)

B. Tests shall be made to determine proper operation of:

(1) Electrical interlocks on entrance doors to the teletherapy treatment room.

(2) The teletherapy source "on-off" indicators, both at the source housing and on the teletherapy machine control panel.

(3) Electrical or mechanical stops installed for the purpose of limiting use of the primary beam of radiation (restriction of source housing angulation or elevation, carriage or stand travel and operation of the beam "on-off" mechanism).

(4) The teletherapy treatment timing device.

C. A report of the results of the above surveys and tests shall be sent in duplicate to the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards, not later than 30 days following each installation of a teletherapy source.

18. A. Any changes made in the treatment room shielding, location of the unit within the treatment room, or use of the teletherapy unit that could result in increased radiation levels in areas outside the teletherapy treatment room shall be evaluated by a radiation survey made in accordance with Condition 16, and reported to the Commission within 30 days following completion of the change(s).

B. Relocation of the teletherapy unit to a new facility is not permitted without prior approval of the plans and details by the Commission. Following such approval and relocation, a radiation survey shall be made in accordance with Condition 16, and reported to the Commission within 30 days after completion of the move.

Printed on recycled paper

19. The following shall be performed only by persons specifically authorized by the Commission or an Agreement State to perform such services:

    A. Installation, relocation, or removal of teletherapy units containing sources.

    B. Source exchange.

    C. Any maintenance or repair operations on a teletherapy unit involving work on the source drawer, the shutter, or other mechanism that could expose the source, reduce the shielding around the source, or compromise the safety of the unit and result in increased radiation levels.

20. A. Pursuant to Section 20.1301 of Title 10, Chapter 1, Code of Federal Regulations, Part 20, "Standards for Protection Against Radiation," and in reliance of statements, procedures, and representations made by the licensee in letter dated April 2, 1985, the following maximum radiation levels are hereby authorized in the following unrestricted areas:

Maximum Radiation Level	Unrestricted Area
5 milliroentgens per hour	Area K outside the north wall
3 milliroentgens per hour	Area H on roof of facility

    B. The licensee shall maintain detailed records of the use of the teletherapy unit to justify assumptions about the workload of the unit (i.e., 3 hours of use per week for 30 weeks per year) and to demonstrate compliance with Section 20.1301 of 10 CFR Part 20.

21. The licensee is exempted from decommissioning financial assurance requirements for possession of licensed material in sealed sources in quantities greater than the limits in 10 CFR 30.35(d) for the purpose of source changes only. This exemption is granted for no more than 30 days for any one source change.

License Number
35-03176-06

Docket or Reference Number
030-19258

Amendment No. 15

MATERIALS LICENSE
SUPPLEMENTARY SHEET

22. 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. Letter dated January 29, 1985
B. Letter dated April 2, 1985
C. Application dated October 28, 1987
D. Letter dated September 26, 1988
E. Letter dated March 2, 1989
F. Letter dated August 20, 1990
G. Letter dated November 2, 1990
H. Letter dated February 7, 1991
I. Letter dated April 25, 1991
J. Letter dated June 14, 1991
K. Letter dated April 21, 1992
L. Letter dated September 9, 1993
M. Letter dated March 4, 1994 and received November 14, 1994
N. Letter dated June 8, 1995
O. Letter dated June 30, 1995
P. Letter dated July 15, 1996
Q. Letter dated May 1, 1997
R. 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

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

May 1, 1997

RECEIVED
MAY - 1 1997
REGION IV

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

Curri lum 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

RECEIVED

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

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 03510
Status Code: 2
Fee Category: EX 3E
Exp. Date: 19930630
Fee Comments: 170.11(A)(4)
Decom Fin Assur Reqd: N

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: 3019258
Control No.: 466390
License No.: 35-03176-06
Action Type: Amendment

2. FEE ATTACHED
Amount: 4
Check No.:

3. COMMENTS

Signed Billie Gruszynski
Date 5/2/97

RECEIVED
MAY - 9 1997
REGION IV

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

1. Fee Category and Amount: EX 3E FEE EXEMPT 170.11(A)(4)

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

3. OTHER

Signed Rita Messier
Date 5/7/97

RECEIVED BY LFMS
Date 5/6/97
Log May 2 IV
By Kent
Date Completed 5/5/97

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

May 1, 1997

RECEIVED
MAY 1 1997
REGION IV

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

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

/lsv

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

Attachments

Nre5197.ltr

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

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

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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

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TO: Jack Whitten DEPT: Nuclear Mat. Licensing

FROM: Radiation Safety DATE: 5/1/97

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