

Carroll County Memorial Hospital

PHONE (660) 542-1695 / 1502 NORTH JEFFERSON / CARROLLTON, MISSOURI 64633

July 21, 2009

U.S. Nuclear Regulatory Commission, Region III
Materials Licensing Branch
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

RE: NRC License No. 24-32611-01

Dear Sirs,

We wish to amend NRC License No. 24-32611-01 in the following ways:

1. Remove Jeanne M. DeMotte, M.D. as the Radiation Safety Officer.
2. Add Michaelle Gamble, CNMT, as the Radiation Safety Officer. Ms. Gamble has completed the necessary credentialing and preceptor attestation is attached. Dr. DeMotte has agreed to be the interim Radiation Safety Officer.
3. Remove the following names from Authorized User list:
Jeanne M. DeMotte, M.D.
4. The following doctors are listed as Authorized Users on NRC License 24-16178-01 for Liberty Hospital, a copy of that license is enclosed. Please add the following to the Authorized User list:

Joseph Caresio, M.D.
Christine Keesling, M.D.
Randall Newth, M.D.
Timothy Raveill, M.D.
Larry Nussbaum, M.D.
Robert MacNaughton, M.D.
Robert Newth, M.D.
Michael Green, M.D.

Thank you for your assistance.

Sincerely,



Jerry Dover, Administrator
Carroll County Memorial Hospital

Enclosures

RECEIVED AUG 04 2009

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, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Liberty Hospital</p> <p>2. 2525 Glenn W. Hendren Drive Liberty, MO 64068</p>	<p>In accordance with the letters dated June 10, 2003,</p> <p>3. License number 24-16178-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date October 31, 2010</p> <hr/> <p>Packet No. 030-10532 Reference No.</p>
---	---

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material permitted by 10 CFR 35.100</p> <p>B. Any byproduct material permitted by 10 CFR 35.200</p> <p>C. Any byproduct material permitted by 10 CFR 35.300</p> <p>D. Any byproduct material identified in 10 CFR 35.400</p> <p>E. Any byproduct material permitted by 10 CFR 31.11</p> <p>F. Cesium-137</p> <p>G. Depleted Uranium</p>	<p>7. Chemical and/or physical form</p> <p>Any</p> <p>Any, excluding ¹³³Xe and ¹³³I</p> <p>Any general source identified in 10 CFR 35.400</p> <p>Prepackaged Kit</p> <p>Sealed source (Isotope Products Model HEG-137)</p> <p>Stainless steel covered metal</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As needed</p> <p>B. As needed</p> <p>C. As needed (not to exceed 1 curie of iodine-131)</p> <p>D. As needed</p> <p>E. As needed</p> <p>F. 4 sources, not to exceed 30 millicuries each</p> <p>G. 4 shields, not to exceed 12 kilograms each</p>
--	---	---



9. Authorized Use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
- B. Any imaging and localization study permitted by 10 CFR 35.200 (excluding xenon-133 and generators).
- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

24-16178-01

Docket or Reference Number

030-10532

Amendment No. 33

- D. Medical use described in 10 CFR 35.400.
- E. In vitro studies.
- F. Two sources to be used in ADAC Laboratories Transmission Source Housing MCD-AC attenuation correction system for medical radiography in humans. Two sources in shipping containers for replacement of the sources.
- G. Shielding in ADAC Laboratories MCD-AC attenuation correction system.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 8525 Glenn W. Hendren Drive, Liberty, Missouri.
11. Radiation Safety Officer: Steven C. Seaman, M.D.
12. Licensed material is only authorized for use by or under the supervision of:
- A. Individuals permitted to use as authorized in accordance with 10 CFR 35.13 and 35.14.
- B. The following individuals are authorized for medical use as indicated:

Authorized Users

Material and Use

Robert C. Newth, M.D.

10 CFR 35.100, 35.200 (excluding xenon-133 and generators); 35.300, and cesium-137 in MCD-AC system for medical radiography.

Robert A. MacNaughton, II, M.D.

10 CFR 35.100, 35.200, (excluding xenon-133 and generators), 35.300, and cesium-137 in MCD-AC system for medical radiography.

Larry Nussbaum, M.D.

10 CFR 35.100, 35.200, (excluding xenon-133 and generators), 35.300, and cesium-137 in MCD-AC system for medical radiography.

Mary E. MacNaughton, M.D.

10 CFR 35.100, 35.200, (excluding xenon-133 and generators), 35.300, and cesium-137 in MCD-AC system for medical radiography.

Lawrence Lee, M.D.

10 CFR 35.100, 35.200, (excluding xenon-133 and generators), 35.300, and cesium-137 in MCD-AC system for medical radiography.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
24-16178-01

Docket or Reference Number
030-10532

Amendment No. 33

Steven C. Hannah, M.D.	10 CFR 35.100, 35.200, (excluding xenon-133 and generators), 35.300, 31.11, and cesium-137 in MCD-AC system for medical radiography.
Richard A. Morrison, M.D.	10 CFR 35.400.
Gordon D. Stillie, M.D.	10 CFR 35.400.
Scott C. Cozad, M.D.	10 CFR 35.400.
John I. Halloran, M.D.	10 CFR 35.100, 35.200, (excluding xenon-133 and generators) and 35.400.
Christine Keesling, M.D.	10 CFR 35.100, 35.200, (excluding xenon-133 and generators), 35.300, and cesium-137 in MCD-AC system for medical radiography.
Timothy G. Ravell, M.D.	10 CFR 35.100, 35.200, (excluding xenon-133 and generators).
Randall C. Newth, M.D.	10 CFR 35.100, 35.200, (excluding xenon-133 and generators).

13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by NRC under 10 CFR 32.210 or by an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by NRC under 10 CFR 32.210 or by an Agreement State prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- C. Sealed sources need not be tested if they 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. 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 III, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
24-16178-01

Docket or Reference Number
030-10532

Amendment No. 33

- E. Tests for leakage and/or contamination shall be performed by Radiological Solutions or persons specifically licensed by the Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples but not perform the analysis: analysis of leak samples must be performed by Radiological Solutions or persons specifically licensed by the Commission or an Agreement State to perform such services.
14. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
15. Sealed sources shall not be opened or removed from their source holders.
16. The licensee shall conduct a physical inventory every 3 months to account for all sources and/or devices received and possessed pursuant to 10 CFR 35.59, 10 CFR 35.400 and 10 CFR 35.500 and every 6 months for all other sources and/or devices. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the information required in 10 CFR 35.59(g).
17. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
18. 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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. 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. Applications dated September 18, 2000, June 2, 1998, and;
- B. Letters dated July 17, 1998, October 3, 2000, April 16, 2001, May 14, 2001, April 19, 2002, and February 6, 2003.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

AUG 26 2003

Date _____

By

William P. Reichhold
William P. Reichhold
Materials Licensing Branch
Region III

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE
AND PRECEPTOR ATTESTATION**
[10 CFR 35.50]

APPROVED BY OMB: NO. 3150-0120
EXPIRES: 10/31/2008

Name of Proposed Radiation Safety Officer

Michaëlle A. Gamble, CNMT

Requested Authorization(s) *The license authorizes the following medical uses (check all that apply):*

- 35.100 35.200 35.300 35.400 35.500 35.600 (remote afterloader)
 35.600 (teletherapy) 35.600 (gamma stereotactic radiosurgery) 35.1000 (_____)

PART I – TRAINING AND EXPERIENCE
(Select one of the four methods below)

*Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

1. Board Certification

- a. Provide a copy of the board certification.
- b. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

OR

2. Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above

- a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.
- b. Skip to and complete Part II Preceptor Attestation.

OR

3. Structured Educational Program for Proposed Radiation Safety Officer

a. Classroom and Laboratory Training

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	Research Medical Center-School of Nuclear Medicine Technology	88	Sept. 2004-Aug. 2005
	Radiation Safety Academy	5	Apr. 27-May 1, 2009
Radiation protection	Research Medical Center	16	Sept. 2004-Aug. 2005
	Radiation Safety Academy	16	Apr 27-May 1, 2009
Mathematics pertaining to the use and measurement of radioactivity	Research Medical Center	24	Sept. 2004-Aug. 2005
	Radiation Safety Academy	3	Apr 27-May 1, 2009
Chemistry of byproduct material for medical use	Research Medical Center	64	Sept. 2004-Aug. 2005
Radiation biology	Research Medical Center	16	Sept. 2004-Aug. 2005
	Radiation Safety Academy	2	Apr. 27-May 1, 2009
Total Hours of Training:		234	

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys	Research Medical Center- School of Nuclear Medicine Technology License # 24-18625-01	Sept. 2004- Aug. 2005
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides	Research Medical Center- School of Nuclear Medicine Technology License # 24-18625-01	Sept. 2004- Aug. 2005
Securing and controlling byproduct material	Research Medical Center- School of Nuclear Medicine Technology License #24-18625-01	Sept. 2004- Aug. 2005
Using administrative controls to avoid mistakes in administration of byproduct material	Research Medical Center- School of Nuclear Medicine Technology License #24-18625-01	Sept. 2004- Aug. 2005
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures	Research Medical Center- School of Nuclear Medicine Technology License # 24-18625-01	Sept. 2004- Aug. 2005
Using emergency procedures to control byproduct material	Research Medical Center- School of Nuclear Medicine Technology License # 24-18625-01	Sept. 2004- Aug. 2005
Disposing of byproduct material	Research Medical Center- School of Nuclear Medicine Technology License # 24-18625	Sept. 2004- Aug. 2005
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ Tc99m-as needed I-131-as needed Sealed Sources for Quality Control (Cs-137, Co-57, Ba-133)	Research Medical Center- School of Nuclear Medicine Technology License # 24-18625-01	Sept. 2004- Aug. 2005

* Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience (continued)

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervising Individual John E. Scott, M.D.	License/Permit Number listing supervising individual as a Radiation Safety Officer 24-18279-01
This license authorizes the following medical uses:	
<input checked="" type="checkbox"/> 35.100	<input checked="" type="checkbox"/> 35.200
<input checked="" type="checkbox"/> 35.300	<input type="checkbox"/> 35.400
<input type="checkbox"/> 35.500	<input type="checkbox"/> 35.600 (remote afterloader)
<input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery)	<input type="checkbox"/> 35.600 (teletherapy)
	<input type="checkbox"/> 35.1000 (_____)

c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses	Assisting and attending Dr. Scott Reviewing policies and procedures	Nov. 2007- Dec. 2008
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	Reviewing procedures Discussing previous issues and resolutions	Nov. 2007- Dec. 2008
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses	N/A	
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses	N/A	
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses	N/A	
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses	N/A	
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):	N/A	

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

<p>Supervising Individual <i>If training was provided by supervising RSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)</i></p> <p>John E. Scott, M.D.</p>	<p>License/Permit Number listing supervising individual</p> <p>24-18279-01</p>
--	--

License/Permit lists supervising individual as:

Radiation Safety Officer Authorized User Authorized Nuclear Pharmacist

Authorized Medical Physicist

Authorized as RSO, AU, ANP, or AMP for the following medical uses:

35.100 35.200 35.300 35.400

35.500 35.600 (remote afterloader) 35.600 (teletherapy)

35.600 (gamma stereotactic radiosurgery) 35.1000 (_____)

d. Skip to and complete Part II Preceptor Attestation.

OR

4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist identified on the licensee's license

- a. Provide license number.
- b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

PART II – PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

First Section

Check one of the following:

1. Board Certification

I attest that _____ has satisfactorily completed the requirements in

Name of Proposed Radiation Safety Officer

10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

OR

2. Structured Educational Program for Proposed Radiation Safety Officers

I attest that Michaëlle A. Gamble, CNMT has satisfactorily completed a structural educational

Name of Proposed Radiation Safety Officer

program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

OR

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

Preceptor Attestation (continued)

First Section (continued)

Check one of the following:

3. Additional Authorization as Radiation Safety Officer

I attest that _____ is an
Name of Proposed Radiation Safety Officer

- Authorized User Authorized Nuclear Pharmacist
 Authorized Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

AND

Second Section

Complete for all (check all that apply):

I attest that Michaëlle A. Gamble, CNMT has training in the radiation safety, regulatory issues, and
Name of Proposed Radiation Safety Officer

emergency procedures for the following types of use:

- 35.100
- 35.200
- 35.300 oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required
- 35.300 oral administration of greater than 33 millicuries of sodium iodide I-131
- 35.300 parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required
- 35.300 parenteral administration of any other radionuclide for which a written directive is required
- 35.400
- 35.500
- 35.600 remote afterloader units
- 35.600 teletherapy units
- 35.600 gamma stereotactic radiosurgery units
- 35.1000 emerging technologies, including:

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

AND

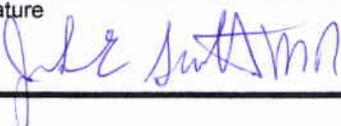
Third Section
Complete for ALL

I attest that Michaelle A. Gamble, CNMT has achieved a level of radiation safety knowledge
Name of Proposed Radiation Safety Officer
sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for Midwest Division-LSH, LLC d/b/a LeesSummit Hospital
Name of Facility

License/Permit Number: 24-24660-01

Name of Preceptor	Signature	Telephone Number	Date
John E. Scott MA		816-282-5619	7-8-09

CARROLL COUNTY MEMORIAL HOSPITAL

1502 North Jefferson Street
CARROLLTON, MISSOURI 64633



02 1P

\$ 000.78⁰

0003122212

JUL 31 2009

MAILED FROM ZIP CODE 64633

U.S. Nuclear Regulatory Commission, Region III
Materials Licensing Branch
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352