



Cass Regional Medical Center

Caring for the Person in Each Patient

2800 E. Rock Haven Road
Harrisonville, Missouri 64701
816-380-3474
www.cassregional.org

Trustees

Bryan Mallory
Chairperson
Raymore, MO

Linda Sherman
Vice-Chairperson
Harrisonville, MO

Carole Arnold
Treasurer
Archie, MO

Katy Crabtree
Secretary
Pleasant Hill, MO

Chris Benjamin
Assistant Secretary
Harrisonville, MO

August 22, 2013

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

Re: NRC License No. 24-20234-02

Dear NRC:

Enclosed is the paperwork to have Vandana Halder, M.D. to become a Radiation Safety Officer.

If approved, please amend our Material License No. 24-20234-02:

1. Drop David Hazuka, M.D. as RSO and continue as authorized user.
2. Add Vandana Halder, M.D. as our new Radiation Safety Officer. Dr. Halder is already an authorized user on our license.

Thanks for your assistance. If you have any questions, please contact Les Warner at 816-380-5888 Ext 3590, or 816-516-5012 (cell).

Sincerely,

J. Christopher Lang, MHA, FACHE
Chief Executive Officer

RECEIVED AUG 27 2013



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August 22, 2013

To: Vandana Halder, M.D.

From: Chris Lang, CEO

You, Vandana Halder, M.D., if approved by the NRC, have been appointed Radiation Safety Officer and are responsible for ensuring the safe use of radiation. You are responsible for managing the radiation protection program; identifying radiation protection problems; initiating, recommending, or providing corrective actions; verifying implementation of corrective actions, stopping unsafe activities; and ensuring compliance with regulations. You are hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of byproduct material by employees who do not meet the necessary requirements and shutting down operations justified by radiation safety. You are required to notify management if staff does not cooperate and does not address radiation safety issues. In addition, you are free to raise issues with the Nuclear Regulatory Commission at any time.

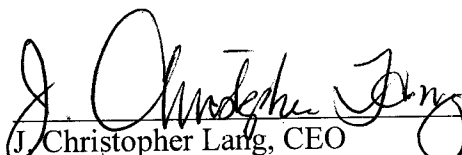
I accept the above responsibilities.



8/22/13

Vandana Halder, M.D.

Date



8/22/2013

Christopher Lang, CEO
Cass Regional Medical Center

Date

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

APPROVED BY OMB: NO. 3150-0120
EXPIRES: (05/31/2015)

Name of Proposed Radiation Safety Officer

VANDANA HALDER MD

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			
Radiation protection			
Mathematics pertaining to the use and measurement of radioactivity			
Radiation biology			
Radiation dosimetry			
Total Hours of Training:		<input type="text"/>	

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		
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides		
Securing and controlling byproduct material		
Using administrative controls to avoid mistakes in administration of byproduct material		
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures		
Using emergency procedures to control byproduct material		
Disposing of byproduct material		
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ <div style="border: 1px solid black; height: 50px; width: 100%; margin-top: 5px;"></div>		

+ 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	License/Permit Number listing supervising individual as a Radiation Safety Officer
This license authorizes the following medical uses: <input type="checkbox"/> 35.100 <input type="checkbox"/> 35.200 <input 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 (teletherapy) <input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <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 & Attending Dr. Hazuka - Reviewing Policies & Procedures	Aug 2011 - Aug 2013
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses	Reviewing Procedures Procedures Discussing previous issues & resolutions	Aug 2011 to Aug 2013
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)

Supervising Individual *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.)*

Dr Hazuka

License/Permit Number listing supervising individual

24-20234-02

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. *24-20234-02*
- 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 _____ 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 Vandana Halder, M.D. is an
Name of Proposed Radiation Safety Officer

Authorized User

Authorized Nuclear Pharmacist

Authorized Medical Physicist

identified on the Licensee's 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 Vandana Halder, M.D. 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:

[Empty box for emerging technologies]

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

AND

Third Section
Complete for ALL

I attest that Vandana Halder, M.D. 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 Cass Regional Medical Center
Name of Facility

License/Permit Number: 24-20234-02

Name of Preceptor	Signature	Telephone Number	Date
David F. Hazuka MD	David F. Hazuka MD	913-226-3413	8-12-13

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 10

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 style="text-align: center;">Licensee</p> <p>1. Cass Regional Medical Center Radiology Services</p> <p>2. 2800 Rock Haven Road Harrisonville, MO 64701</p>	<p>In accordance with the application dated July 19, 2012,</p> <p>3. License number 24-20234-02 is renewed in its entirety as follows:</p> <hr/> <p>4. Expiration date January 31, 2023</p> <hr/> <p>5. Docket No. 030-29723 Reference No.</p>
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<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>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</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. One curie</p>
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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.
 - C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300 (excluding sodium iodide iodine-131 for treatment of thyroid carcinoma).

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 2800 Rock Haven Road, Harrisonville, Missouri.
- 11. Radiation Safety Officer: David F. Hazuka, M.D.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
24-20234-02

Docket or Reference Number
030-29723

Amendment No. 10

12. Licensed material is only authorized for use by, or under the supervision of:

- A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.
- B. The following individuals are authorized users for medical use as indicated:

<u>Authorized Users</u>	<u>Material and Use</u>
James E. Sear, M.D.	10 CFR 35.200.
David F. Hazuka, M.D.	10 CFR 35.100, 35.200 and 35.300 (excluding sodium iodide iodine-131 for treatment of thyroid carcinoma).
Richard L. Cronemeyer, M.D.	10 CFR 35.100, 35.200 and 35.300 (excluding sodium iodide iodine-131 for treatment of thyroid carcinoma).
Robert F. Thompson, M.D.	10 CFR 35.100, 35.200 and 35.300 (excluding sodium iodide iodine-131 for treatment of thyroid carcinoma).
Thomas L. Rosamond, M.D.	10 CFR 35.200.
Timothy Blackburn, M.D.	10 CFR 35.200.
Carrie Totta, M.D.	10 CFR 35.200.
John F. Eurich, M.D.	10 CFR 35.100, 200 and 300 (excluding sodium iodide iodine-131 for treatment of thyroid carcinoma).
Vandana Halder, M.D.	10 CFR 35.100, 200 and 300 (excluding sodium iodide iodine-131 for treatment of thyroid carcinoma).
Craig B. McClure, M.D.	10 CFR 35.100 and 200.
Nathaniel R. Jewell, M.D.	10 CFR 35.100, 200 and 300 (limited to the use of sodium iodide I-131).
Michael B. Robertson, M.D.	10 CFR 35.100, 200 and 300 (limited to the use of sodium iodide I-131).

13. 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.

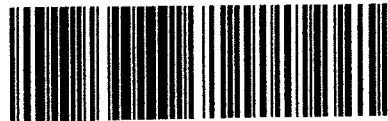
**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
24-20234-02Docket or Reference Number
030-29723

Amendment No. 10

14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
15. 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. Application dated **July 19, 2012 (including attached letter dated July 20, 2012, excluding section 7.b. and all references to NUREG 1556, Vol. 5, Appendix G regarding self-appointment of future Radiation Safety Officers).**

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 15 2013By Colleen Carol Casey
Colleen Carol Casey
Materials Licensing Branch
Region III



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SPPA
8-22-13



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Medical Center

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