



Jul 1<sup>st</sup>, 2009

U.S. Nuclear Regulatory Commission, Region IV  
Nuclear Materials Licensing Section  
611 Ryan Plaza Drive, Suite 400  
Arlington Texas 76011-8064

RE: Diagnostic Health, Anchorage License: 50-23214-01

Please amend the Diagnostic Health Anchorage NRC byproduct materials license as of Jul 1<sup>st</sup> 2009 to add Dr Marc Beck MD as an authorized user under 10 CFR 31.11, 35.100 and 35.200. Dr Beck is currently listed as an authorized user on the enclosed Minnesota license 1055-201-27. Request that my Anchorage license, *Material and Use* section, to mirror the attached Minnesota license which states "authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.4440 (limited to sodium Iodine I-131 capsules for outpatient procedures only)."

Please contact me at (907) 729-5854/5809 or [ward.hinger@dxhealthcorp.com](mailto:ward.hinger@dxhealthcorp.com) if you have any questions regarding the enclosed information.

Sincerely

Ward Hinger, Western Area Manager  
Diagnostic Health, Anchorage LP  
4100 Lake Otis Parkway #222  
Anchorage, AK 99508  
Phone: (907) 729-5800  
[ward.hinger@dxhealthcorp.com](mailto:ward.hinger@dxhealthcorp.com)

Attach One: Diagnostic Health, Anchorage License: 50-23214-01  
Attach Two: Minnesota license 1055-201-27.

U.S. NUCLEAR REGULATORY COMMISSION

**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.

Licensee	In accordance with letter dated January 7, 2009
1. Diagnostic Health, Anchorage LP	3. License number 50-23214-01 is amended in its entirety to read as follows:
2. 4100 Lake Otis Parkway #102 Anchorage, Alaska 99508	4. Expiration date November 30, 2014
	5. Docket No. 030-20372 Reference No.

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 permitted by 10 CFR 35.100	A. Any	A. As needed
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As needed
C. Iodine-131 permitted by 10 CFR 35.300	C. Sodium iodide Iodine-131 in capsule form	C. 300 millicuries
D. Any byproduct material permitted by 10 CFR 31.11	D. Prepackaged kits	D. 50 millicuries

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 Iodine-131 procedure permitted by 10 CFR 35.300 for which the patient can be released under the provisions of 10 CFR 35.75.
  - D. In-vitro studies.

**CONDITIONS**

- 10. Licensed material may be used only at the licensee's facilities located at Lake Otis Medical Plaza, 4100 Lake Otis Parkway #102, Anchorage, Alaska.
- 11. The Radiation Safety Officer for this license is Robert L. Bridges, M.D.

Attach one page 1 of 3

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
50-23214-01

Docket or Reference Number  
030-20372

Amendment No. 17

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:

Authorized Users

Material and Use

Sean Bryant, M.D.

35.100; 35.200; 31.11

Jennifer L. Kemp, M.D.

35.100; 35.200; 31.11

Brian Steele, M.D.

35.100; 35.200; 31.11

Lawrence L. Emmons, M.D.

35.100; 35.200; oral administration of sodium iodide I-131;  
31.11

Robert L. Bridges, M.D.

35.100; 35.200; oral administration of sodium iodide I-131;  
31.11

Molly B. Southworth, M.D.

Oral administration 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.

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."

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
50-23214-01Docket or Reference Number  
030-20372

Amendment No. 17

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 January 21, 2003 (ML022480211)
- B. Letter dated February 18, 2003 (ML030300297)
- C. Letter dated October 06, 2003 (ML033160636)
- D. Letter dated October 27, 2003 (ML033160636)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: March 30, 2009By: 

Roberto J. Torres, Senior Health Physicist  
Nuclear Materials Safety Branch B  
Region IV  
Arlington, Texas 76011



1055-201-27  
Page 1 of 5

## RADIOACTIVE MATERIALS LICENSE

Pursuant to Minnesota Statute 144.12 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 radioactive materials 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 rules. This license is subject to all applicable rules and orders of the Minnesota Department of Health including the Minnesota Radioactive Materials Rules, Chapter 4731, now or hereafter in effect, and to any conditions specified below.

<p><b>LICENSEE</b></p> <p>1. NORTH MEMORIAL MEDICAL CENTER</p> <p>2. 3300 OAKDALE AVENUE NORTH ROBBINSDALE, MINNESOTA 55422</p>	<p>In accordance with the documents listed in Item 16, the Minnesota Department of Health Radioactive Materials License is issued to read as follows:</p> <p>3. License Number: 1055-201-27</p> <p>4. Expiration Date: January 31, 2011</p> <p style="text-align: center;">Program Codes</p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Primary: 2120</td> <td style="border: none;">Secondary:</td> <td style="border: none;">Other:</td> </tr> </table>			Primary: 2120	Secondary:	Other:
Primary: 2120	Secondary:	Other:				
<p>5. By Product, Source, Special Nuclear and/or Natural Occurring; or Accelerator Produced Radioactive Material</p> <p>A. Any radioactive material authorized by 4731.4432</p> <p>B. Any radioactive material authorized by 4731.4434 (excluding Xenon-133)</p> <p>C. Any radioactive material authorized by 4731.4440</p> <p>D. Any radioactive material authorized by 4731.4450</p> <p>E. Any radioactive material authorized by 4731.3245</p> <p>F. Cesium-137</p>	<p>6. Chemical and/or Physical Form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p> <p>D. Any brachytherapy source permitted by 4731.4450</p> <p>E. Prepackaged kits</p> <p>F. Sealed source (3M Model 6D6C)</p>	<p>7. 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 (37 GBq) of Iodine-131</p> <p>D. 700 millicuries (25.9 GBq)</p> <p>E. As needed</p> <p>F. 150 millicuries (5.55 GBq)</p>				

**8. AUTHORIZED USE**

- A. Any uptake, dilution, and excretion study authorized by 4731.4432.
- B. Any imaging and localization study authorized by 4731.4434.
- C. Medical use of unsealed radioactive material requiring a written directive as authorized by 4731.4440 (limited to out patient procedures only).
- D. Any manual brachytherapy procedure permitted by 4731.4450.
- E. In vitro clinical or laboratory testing use authorized by 4731.3245.
- F. For storage only incident to disposal.

Attach Two page 1 of 4



## RADIOACTIVE MATERIALS LICENSE

### CONDITIONS

9. Licensed material shall be used or stored only at the licensee's facilities located at 3300 Oakdale Avenue North, Robbinsdale, Minnesota and North Memorial Outpatient Care Center, 3435 West Broadway, Robbinsdale, Minnesota.
10. The Radiation Safety Officer for this license is Mary Fox, M.S.
11. Licensed material is only authorized for use or under the supervision of:

A. Individuals permitted to work as an authorized user in accordance with 4731.4403.

B. The following individuals are authorized users for the materials and uses indicated:

Authorized User

Material and Use

Nellie Bauer, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.

*Marc R. Beck, M.D.*

*Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.4440 (limited to Iodine-131 for out patient procedures only).*

Richard D. Belkin, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.

Patricia E. Bruer, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.

Richard W. Carlson, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to out patient procedures only), and 4731.3245.

Kenneth B. Cram, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to out patient procedures only), and 4731.3245.

Brian De Michaelis, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.

Richard F. Diaz, M.D.

Material authorized by 4731.4450.

Keith J. Edinburgh, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.

*Jeffrey R. Gambach, M.D.*

*Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.4440 (limited to Iodine-131 for out patient procedures only).*

Maria Gomes, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.



## RADIOACTIVE MATERIALS LICENSE

Jeffery Groffsky, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.3245.
Robert Haselow, M.D.	Material authorized by 4731.4440 (limited to out patient procedures only), and 4731.4450.
<i>Alexander Lai, M.D.</i>	<b>Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.4440 (limited to Iodine-131 for out patient procedures only).</b>
Brian T. Larkin, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.3245.
William N. Lisberg, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.4440 (limited to out patient procedures only).
Charles W. Maile, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to out patient procedures only), and 4731.3245.
Mary D. McLaurin, M.D.	Material authorized by 4731.4434 (excluding generators and Xenon-133) limited to cardiovascular clinical procedures.
Eduard Michel, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.
Kurt Nisi, M.D.	Material authorized by 4731.4440 (limited to out patient procedures only), and 4731.4450.
Douglas J. Olson, M.D.	Material authorized by 4731.4450.
Thomas Pellola, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.
Mark Pilot, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133) limited to cardiovascular clinical procedures only.
Dominic A. Plucinski, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.
Robert A. Pollock, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to out patient procedures only), and 4731.3245.
Timothy J. Reiners, M.D.	Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.
<i>Andrew J. Ruppert, M.D.</i>	<b>Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.4440 (limited to Iodine-131 for out patient procedures only).</b>



## RADIOACTIVE MATERIALS LICENSE

Scott Schultz, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to out patient procedures only), and 4731.3245.

David P. Wicklund, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), and 4731.3245.

Dennis A Woolner, M.D.

Material authorized by 4731.4432, 4731.4434 (excluding generators and Xenon-133), 4731.4440 (limited to Iodine-131 out patient procedures only), and 4731.3245.

C. Authorized Medical Physicists for this license are Mary Fox, MS, Loretta Lewandowski, Ph.D., and Nagarajan Varadhan.

12. The licensee shall follow the US Nuclear Regulatory Commission Regulatory Guide 8.39 "Release of Patients Administered Radioactive Materials" for the release of patients receiving radiopharmaceutical therapy.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months or the intervals specified in the certificate of registration issued by the US Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months or the intervals specified in the certificate of registration issued by the US Nuclear Regulatory Commission or an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources and detector cells need not be tested if they contain not more than 100 microcuries (3.7 MBq) of beta and/or gamma-emitting material or not more than 10 microcuries (0.37 MBq) of alpha-emitting material.
- D. Sealed sources may be stored for a period of no more than 3 years without being tested for leakage and/or contamination. When sealed sources are removed from storage for use or for transfer to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerel) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerel) or more of removable contamination, a report shall be filed with the Minnesota Department of Health in accordance with Chapter 4731.3110, and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Minnesota Department of Health regulations.
- F. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the US Nuclear Regulatory Commission or an Agreement State to perform such services.
14. The licensee shall conduct a physical inventory every 6 months to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and date of the inventory.
15. In addition to the possession limits in Item 7, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 4731.3080 for establishing decommissioning financial assurance.
16. 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 except for minor changes in the medical use radiation safety procedures as provided by 4731.4405 Subpart 2. The Minnesota Department of Health rules shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the rules.

A. NRC application dated November 28, 2000.



### RADIOACTIVE MATERIALS LICENSE

- B. Letters to NRC dated February 23, 2001; June 6, 2001; and June 27, 2001.
- C. Letter to NRC received December 21, 2001.
- D. Letters to NRC dated July 29, 2002; November 8, 2004 and April 4, 2005.
- E. MDH license application dated October 28, 2005.
- F. Amendment request dated July 7, 2008, August 22, 2008, and October 21, 2008.

#### FOR THE MINNESOTA DEPARTMENT OF HEALTH

Prepared by: *[Signature]* Date: 11/25/08  
Radioactive Materials Unit Staff

Reviewed by: *[Signature]* Date: 11/25/08  
Radioactive Materials Unit Staff

Approved by: *[Signature]* Date: 11/25/08  
Radioactive Materials Unit Supervisor

## ACCEPTANCE REVIEW MEMO (ARM)

**Licensee:** Diagnostic Health Anchorage LP    **License No.:** 50-23214-01  
**Docket No.:** 030-20372    **Mail Control No.:** 472313  
**Type of Action:** Amend    **Date of Requested Action:** 7/01/09  
**Reviewer Assigned:** ARM reviewer(s): Torres

Response	Deficiencies Noted During Acceptance Review
	[ ] Open ended possession limits. Submit inventory. Limit possession. [ ] Submit copies of latest leak test results. [ ] Add IC L.C./Fingerprint LC, add SUNSI markings to license. [ ] Confirm with licensee if they have NARM material.

**Reviewer's Initials:** \_\_\_\_\_ **Date:** \_\_\_\_\_

<input type="checkbox"/> Yes	<input type="checkbox"/> No	Request for unrestricted release Group 2 or >. Consult with Bravo Branch.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Termination request < 90 days from date of expiration
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Expedite (medical emergency, no RSO, location of use/storage not on license, RAM in possession not on license, other)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	TAR needed to complete action.

**Branch Chief's and/or HP's Initials:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**SUNSI Screening according to RIS 2005-31**

Yes     No    **Sensitive and Non-Publicly Available** if any item below is checked

General guidance:

- \_\_\_\_\_ RAM = or > than Category 3 (Table 1, RIS 2005-31), use Unity Rule
- \_\_\_\_\_ Exact location of RAM [suite #, bldg. #, location different from mailing address] (whether = or > than Category 3 or not)
- \_\_\_\_\_ Design of structure and/or equipment (site specific)
- \_\_\_\_\_ Information on nearby facilities
- \_\_\_\_\_ Detailed design drawings and/or performance information
- \_\_\_\_\_ Emergency planning and/or fire protection systems

Specific guidance for medical, industrial and academic (above Category 3):

- \_\_\_\_\_ RAM quantities and inventory
- \_\_\_\_\_ Manufacturer's name and model number of sealed sources & devices
- \_\_\_\_\_ Site drawings with exact location of RAM, description of facility
- \_\_\_\_\_ RAM security program information (locks, alarms, etc.)
- \_\_\_\_\_ Emergency Plan specifics (routes to/from RAM, response to security events)
- \_\_\_\_\_ Vulnerability/security assessment/accident-safety analysis/risk assess
- \_\_\_\_\_ Mailing lists related to security response

**Branch Chief's and/or HP's Initials:** ATC    **Date:** JUL - 8

JUL - 9

DATE

This is to acknowledge the receipt of your letter/application dated 7-01-09, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify other omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card:

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The action you requested is normally processed within 90 days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 472313.  
When calling to inquire about this action, please refer to this mail control number.  
You may call me at 817-860-8103.

Sincerely,



Licensing Assistant

: (FOR LFMS USE)  
: INFORMATION FROM LTS  
: -----  
:  
:  
: Program Code: 02200  
: Status Code: 0  
: Fee Category: 7C  
: Exp. Date: 20141130  
: Fee Comments:  
: Decom Fin Assur Reqd: N  
: .....

BETWEEN:  
License Fee Management Branch, ARM  
and  
Regional Licensing Sections

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED  
Applicant/Licensee: DIAGNOSTIC HEALTH ANCHORAGE LP  
Received Date: 20090630  
Docket No: 3020372  
Control No.: 472313  
License No.: 50-23214-01  
Action Type: Amendment

2. FEE ATTACHED  
Amount: \_\_\_\_\_  
Check No.:       /      

3. COMMENTS  
Signed Colleen Murahan  
Date 7-06-09

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

1. Fee Category and Amount: \_\_\_\_\_

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

3. OTHER \_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_