

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.

PC 02120
Licensee

317747

1. Kirksville Missouri Hospital Company, LLC d/b/a Northeast Regional Medical Center, Inc. 2. 800 West Jefferson Kirksville, MO 63501	In accordance with letter dated December 4, 2008,
	3. License number 24-05245-01 is amended in its entirety to read as follows:
	4. Expiration date November 30, 2010
	5. Docket No. 030-02332
	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. Any byproduct material permitted by 10 CFR 35.300	C. Any	C. As needed (not to exceed 1 curie of I-131)
D. Iodine-125 and Palladium-103 permitted by 10 CFR 35.400	D. Sealed sources (Medi-Physics, Inc. Model Nos. 6711 and 6733, Bard Brachytherapy, Inc. Model No. STM-1251, and North American Scientific, Inc. Model: MED 3633)	D. 300 millicuries for iodine-125 and 1 curie for palladium-103
E. Any byproduct material permitted by 10 CFR 31.11	E. Prepackaged Kits	E. As needed
F. Gadolinium-153	F. Sealed sources (Isotopes Products labs, Model NES 8497)	F. 4 sources not to exceed 300 millicuries each

9. Authorized Use:
- A. Any uptake, dilution and excretion study permitted by 10CFR 35.100.
 - B. Any imaging and localization study permitted by 10CFR 35.200.
 - C. Any diagnostic study or therapy procedure permitted by 10CFR 35.300.

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- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- E. In vitro studies.
- F. **For use in a Philips Medical Systems ADAC Laboratories attenuation Correction Device model CardioMD-AC.**

CONDITIONS

10. Location of Use: 800 West Jefferson, Kirksville, Missouri.
11. Radiation Safety Officer: Paul M. Williams, D.O.
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:

Authorized Users

Material and Use

Paul M. Williams, D.O.	10 CFR 35.100, 35.200, 35.300, Gadolinium-153 and 31.11.
Catherine McDermott Barteau, D.O.	10 CFR 35.100, 35.200, 35.300 (excluding iodine-131 for thyroid carcinoma), Gadolinium-153 and 31.11.
Steven J. Westgate, M.D.	Iodine-125 and Palladium-103 in 10 CFR 35.400.
Mark Bryer, M.D.	Iodine-125 and Palladium-103 in 10 CFR 35.400.
Jay Allen, M.D.	Iodine-125 and Palladium-103 in 10 CFR 35.400.

13. The licensee shall collect spent aerosol in a shielded trap and, for reusable traps, monitor the trap effluent with an air contamination monitor that will be checked regularly according to the manufacturer's instruction.
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 10CFR 30.35(d) for establishing decommissioning financial assurance.
15. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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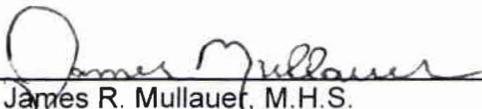
16. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply:
- A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
 - C. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of 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.
 - D. Sealed sources need not be tested if they contain only hydrogen³; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
 - E. 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.
 - F. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
 - G. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
17. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license.

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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. Application dated October 19, 2000; and
 - B. Letters dated November 15, 2000, December 10, 2002, May 1, 2003, October 7, 2003, November 16, 2006, January 15, 2007, **December 4, 2008**; and
 - C. Facsimile dated January 24, 2001.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date DEC 19 2008By 
James R. Mullauer, M.H.S.
Materials Licensing Branch
Region III