NRC FORM 374	U.S. NUCLEAR REGULAT	ORY COMMISSION	PAGE <u>1</u> OF <u>5</u> PAGES Amendment No. 74						
	MATERIALS L	ICENSE							
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 licensee 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	h the letter dated						
		August 1, 2007, a October 29, 2007	and facsimile letter dated						
1. Boone Hospital Center		3. License number 2	4-01565-01 is amended in						
		its entirety to read	as follows:						
2. 1600 East Broadway	, R R	A. Expiration date Ap	oril 30, 2015						
Columbia, MO 65201	EAN	5. Docket No. 030-0	02304						
	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	Reference No.	······································						
<ol> <li>Byproduct, source, and/or special nuclear material</li> </ol>	7. Chemical and/or p	hysical form 8	Maximum amount that licensee may possess at any one time under this lidense						
<ul> <li>A. Any byproduct material</li> <li>permitted by 10 CFR+35.10</li> <li>B. Any byproduct material</li> </ul>	0 B. Any		A.⊖As needed ◯ B. ≩s needed						
permitted by 10 CFR 35.20	0.		Ŗ						
C. Any byproduct material permitted by 10 CFR 3	o C. Any-		C. As needed (not to exceed 01 curie of iodine-131)						
D. Any byproduct material permitted by 10 CFR 35.40	D. Sealed sou (Medi-Phys 6711, Ther No. 200, Be Mode No Bard Mode Model No. 0 Tracer-Lab RA-1)	ices (Oncurs ice) Model No. agenics Model est Industries 1-th Series, 1 STM-1251, 3M 6500 Series, , Model No.	D. 4560 millicuries						
E. Cesium-137 permitted by 1 CFR 35.400	0 E. Sealed sou Associates, 67-800 and	rces (Nuclear , Model Nos. 67-601)	<ul> <li>E. 484 millicuries for Model No.</li> <li>67-800 and 258 millicuries</li> <li>for Model No. 67-601)</li> </ul>						
F. Cesium-137	F. Sealed sou Model No. 3	rce (Tech. Ops. 77032)	F. 165 millicuries						
G. Any byproduct material permitted by 10 CFR 31.11	H. Prepackage	ed kit	H. 50 millicuries						
H. Depleted uranium	I. Metal		I. 999 kilograms						

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	. <u></u>								
9.	Aut	horized use:							
	Α.	Any uptake, dilution and excretior	n study permitted by	10 CFR 35.100.					
	В.	Any imaging and localization stud	ly permitted by 10 CI	FR 35.200.					
	C.	Any diagnostic study or therapy p	rocedure permitted t	oy 10 CFR 35.300.					
	D.	Any manual brachytherapy proced	Jure permitted by 10	CFR 35.400.					
	E. a	and F. For storage only incident $\mathbf{k}$	ó disposal.	ULA.					
	G.	In vitro studies.							
	Н.	For use as shielding material.	l≫						
			CONDITIONS						
10.		A. Licensed material may be used at the second state of the second							
		B. Licensed material in Subtrand 9.A and 9.B may also be used at Enzgibbon Hospital, 2305 S. Highway 65, Marshall, Missouri.							
11.	Rac	liation Safety Officer for this license	e is Liesj <b>e Myers</b> , CN						
12.	2. HDR Physicists: Joel Love, M.S. and Krith Alan Hickey, Ph.								
13.	Lice	Licensed material is only authorized for use by, or under the supervision of:							
	Α.	Individuals permitted to work as an authorized user, and/or authorized medical physicist in accordance with 10 CFR 35.13 and 35.14.							
	Β.	The following individuals are authorized users for medical use as indicated:							
		Authorized Users	Material and Use						
		John Baird, M.D.	10 CFR 35.100, 35 permitted by 35.30	0.200, iodine-131 diagnostic procedures 0 and 31.11.					
		Vijay Sadhu, M.D.	10 CFR 35.100, 35 permitted by and 3	0.200, iodine-131 diagnostic procedures 31.11.					
		Barbara Tellerman, M.D.	10 CFR 35.100, 35 permitted by and 3	.200, iodine-131 diagnostic procedures 1.11.					

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CI	harles M. Swaney, M.D.	10 CFR 35.100, 35 procedures and th 35.300.	5.200, 31.11, and iod e treatment of hypert	ine-131 hyroidis	for e	diag ermi	nost itted	ic by
M	ark Bryer, M.D.	10 CFR 35.300 an	d 35.400.					
Hi	ugh Jerry Murrell, M.D.	10 CFR 35.300 an	d 35.400.					
St	teven Westgate, M.D.	10 GRR 38360 80	d,35.400.					
JC	oseph M. Bean, M.D.	10 CFR 35.300 an	id 35.409.					
Fi	shel Z. Liberman, M.🛠	10 CFR 35.300 an	d 35.400.					
Τe	erry J. Elwing, M.D.	10 CFR 35.100, 39 pennitted by 35.30	5.2 <b>00 iod</b> ine-131 dia 00 and 31.11.	gnostic	proc	edu	res	
La	aura J. Sievert, M1D.	10 CFR 35,100, 39	5.200, jodine-131 dia perinyroidism permit	gnostic ted by 3	proc 35.30	edu )0 ar	res nd 3	and 1.11.
Ja	ames Allen, M.D.	18 CFR 35.300 an	≤ 35.400 -					
M	axwell Lazinger, M.D.	10 CER 35 100, 3 permitted by 35.30	200, iodine-131 dia 0 and 31.11.	gnostic	proc	edu	res	
Da	avid Perry Brummett, M	10 CFR 35.100, 35 the treatment of h	5.200, iodine-131 for /parthyroidism permit	diagno: tted by	stic p 35.3	oroce 00 a	edur nd 3	es and 1.11.
w	illiam E. Decker, M.D.	10 CFR 35.300 an	d 35.400.					
Jo	hn Harold Bechtel, M.D.	10 CFR 35.300 an	d 35.400.					
Ge	eorge Barber Dunn, M.D.	10 CFR 35.100, 35 permitted by 35.30	5.200, iodine-131 dia 0 and 31.11.	gnostic	proc	edu	res	
Hu	un Tai Lee, M.D.	10 CFR 35.100, 38 permitted by 35.30	5.200, iodine-131 dia 0 and 31.11.	gnostic	proc	edu	res	

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14.	A.	Sealed sources shall be tested for leakage and/ intervals specified in the certificate of registration Commission under 10 CFR 32.210 or by an Agr	or contamination at intervals not to exceed the in issued by the U.S. Nuclear Regulatory reement State.
	В.	In the absence of a certificate from a transferor the intervals specified in the certificate of registr. Commission under 10 CFR 32.210 or by an Agr source received from another person shall not b received.	indicating that a leak test has been made within ation issued by the U.S. Nuclear Regulatory eement State, prior to the transfer, a sealed be put into use until tested and the test results
	C.	Sealed sources need not be tested if they conta gamma emitting material or not more than 10 m	in not more than 100 microcuries of beta and/or iicrocuries of alpha emitting material.
	D.	Sealed sources need not be tested if they are in when they are removed from storage for use or been tested within the required leak test interval sealed source shall be stored for a period of mo leakage and/or contamination.	storage and are not being used. However, transferred to another person, and have not I, they shall be tested before use or transfer. No ore than 10 years without being tested for
	E.	The leak test shall be capable of determine p of radioactive material on the test sample on the (185 becquerels) or more of removable contami U.S. Nuclear Regulatory Commission in accords shall be removed immediately from service and accordance with Commission regulations.	iresence of 0.005 microcurie (185 becquerels) i test reveals the persence of 0.005 microcurie ination, a report shall be filed with the ance with 10 CFR 30.50(c)(2), and the source decontaminated, repaired, or disposed of in
l	F.	Tests for leakage and or contamination, includin be performed by the licenses or other persons s Regulatory Commission or an Agreement State	ig leak text sample collection and analysis, shall specifically licensed by the U.S. Nuclear to perform such services.
	G.	Records of leak test results shall be kept in units years.	s of microcuries and shall be maintained for 3
15.	The licens received a sources a inventory	see shall conduct a physical inventory every 3 mo and possessed pursuant to 10 CFR 35.59, 10 CF and/or devices. Records of inventories shall be m , and shall include the information required in 10	onths to account for all sources and/or devices <sup>2</sup> R 35.400 and every 6 months for all other naintained for 5 years from the date of each CFR 35.59(g).
16.	Sealed so by the lice	ources containing licensed material shall not be o ensee.	pened or sources removed from source holders
17.	In additior material to decommis	n to the possession limits in Item 8, the licensee s o quantities below the minimum limit specified in ssioning financial assurance.	shall further restrict the possession of licensed 10 CFR 30.35(d) for establishing

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18.	<ol> <li>The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."</li> </ol>										
19.	19. 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.								uding red to ne .26. ive		
	Α.	Application date	ed March &	2005;							
	В.	Letters dated Se August 1, 2007	eptember 1 '; and?	10, 1990, Octob	ber 18, 2006,	November 14, 2006	i, Janua	iry 1	5, 20	07 a	Ind
	C. Facsimile dated April 20, 2005, transmitting letter dated October 29, 2003; and										
	D. Facsimile letter dated April 2, 2007, and $3$ , 2007.										
					FOR THE U	J.S. NUCLEAR REG	ULATC	RY	CON	IMIS	SION
Dat	e	OCT <b>3 1 2007</b>			By William I William I Materials Region I	P. Reichhold s Licensing Branch	) . 	lie	<u>let</u>	<i>'</i>	