NRC FORM 374	U.S. NUCLEAR REGULAT	ORY COMMISSION	PAGE <u>1</u> OF <u>5</u> PAGES Amendment No. 73				
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 the letter dated					
		January 15, 2007, ar April 2, 2007,	nd facsimile letter dated				
1. Boone Hospital Center		3. License number 24-0	1565-01 is amended in				
		its entirety to read as					
2. 1600 East Broadway	RRR						
Columbia, MO 65201	OVEAR R	5. Docket No. 030-023)4				
	<u></u>	Reference No.					
 6. Byproduct, source, and/or special nuclear material A. Any byproduct material permitted by 10 CFR 35.100 B. Any byproduct material permitted by 10 CFR 35.200 C. Any byproduct material permitted by 10 CFR 36.300 D. Any byproduct material permitted by 10 CFR 35.400 E. Cosium 137 permitted by 10 CFR 35.400 	D. Sealed and (Medi-Phys 6711, The No. 200, Be Model No. 6 Tracer-Lab, RA-1)	A B C C C C C C C C C C C C C C C C C C	0. 4560 millicuries				
E. Cesium-137 permitted by 10 CFR 35.400		Model Nos.	 484 millicuries for Model No. 67-800 and 258 millicuries for Model No. 67-601) 				
F. Cesium-137	F. Sealed sour Model No. 7	· · · · ·	. 165 millicuries				
G. Any byproduct material permitted by 10 CFR 31.11	H. Prepackage	ed kit H	I. 50 millicuries				
H. Depleted uranium	I. Metal	I.	999 kilograms				

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9.	Aut	horized use:							
	Α.	Any uptake, dilution and excretion s	study permitted by	10 CFR 35.100.					
	В.	Any imaging and localization study	permitted by 10 CI	FR 35.200.					
	C.	Any diagnostic study or therapy pro	ocedure permitted t	oy 10 CFR 35.300.					
	D.	Any manual brachytherapy procedu	are permitted by 10 $P R E \cap$	CFR 35.400.					
	E. a	and F. For storage only incident fo	R R E G	ULAN					
	G.	In vitro studies.		· ^					
	Н.	For use as shielding material.	`	n de la companya de l					
10.	 A. Licensed material may be used at the structure's facilities located at Boone Hospital Center, 1600 East Broadway, Columbia Hissour. B. Licensed material in Subtrary 9 A and 9 B may also be used at Etzgibbon Hospital, 2305 S. Highway 65, Marshall, Missouri. 								
11.	1. Radiation Safety Officer for this license is Liesje Myers, CNMT.								
12.	2. HDR Physicists: Joel Love, M.S. and Krith Alan Hickey, Ph.D								
13.	3. Licensed material is only authorized for use by, or under the supervision of:								
	Α.	A. Individuals permitted to work as an authorized user, and/or authorized medical physicist in accordance with 10 CFR 35.13 and 35.14.							
	В.	The following individuals are author	rized users for med	ical use as indicated					
		Authorized Users	Material and Use						
			10 CFR 35.100, 35 permitted by 35.30	.200, iodine-131 diag 0 and 31.11.	gnostic	proc	edur	es	
			10 CFR 35.100, 35 permitted by and 3	.200, iodine-131 diag 1.11.	nostic	proc	edur	es	
			10 CFR 35.100, 35 permitted by and 3	.200, iodine-131 diag 1.11.	nostic	proc	edur	es	

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Char	rles M. Swaney, M.D.		5.200, 31.11, and iod treatment of hypert			-		
Mark	Bryer, M.D.	10 CFR 35.300 ar	id 35.400.					
Hugh	h Jerry Murrell, M.D.	10 CFR 35.300 ar	nd 35.400.					
Stev	en Westgate, M .D. E	10 OFR 38360 an	d 35.400.					
Jose	ph M. Bean, M.D. $(0, 1)^{1/2}$	10 CFR 35.300 ar	nd 35.40 9 .					
Fishe	el Z. Liberman, M.	10 CFR 35.300 ar	nd 35.400.					
Terry	y J. Elwing, M.D. ²	10 CFR 35.100, 3 pennitted by 35.30	5.200 logine-131 dia 20 anii 31.11.	gnostic	proc	edur	es	
Laura	a J. Sievert, MCD. →		5.200, Jodine-131 dia					
Jame	es Allen, M.D.	16.COT 36 300 a	35.400					
Maxv	well Lazinger, M.Q.	10.000 35 100 3 permitter 1 35 30	200, iodine-131 dia 00 and 31.11.	gnostic	proc	edur	es	
David	d Perry Brummett, M.D.		5.200, iodine-131 for yporthyroidism permit					
Willia	am E. Decker, M.D.	10 CFR 35.300 ar	d 35.400.					
John	Harold Bechtel, M.D.	10 CFR 35.300 ar	id 35.400.					
Geor	rge Barber Dunn, M.D.	10 CFR 35.100, 3 permitted by 35.30	5.200, iodine-131 dia 00 and 31.11.	gnostic	proc	edur	es	
Hun	Tai Lee, M.D.	10 CFR 35.100, 39 permitted by 35.30	5.200, iodine-131 dia 00 and 31.11.	gnostic	proc	edur	es	

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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	n issued by the U.S. Nuclear Regulatory					
	B.	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.	eement State, prior to the transfer, a sealed e 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 hot more than 100 microcuries of beta and/or icrocuries 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 chall be stored for a period of mo leakage and/or contamination	transferred to another person, and have not , they shall be tested before use or transfer. No					
	E.	The leak test shall be capable of periods of radioactive material of the test same shall be capable of reference of the test same shall be removed immediately from shall be removed immediately from setting and accordance with Commission regulations.	nation a report shall be filed with the ance with 10 CFR 30.50(c)(2), and the source recontaminated, repaired, or disposed of in					
	F.	Tests for leakage and/or contamination, ficludin be performed by the licensee or other persons s Regulatory Commission or an Agromett Stee	ig leak tethsample collection and analysis, shall specifically licensed by the U.S. Nuclear					
		Records of leak test results shall be kept in units years.	s of microcuries and shall be maintained for 3					
15.	received a sources a	see shall conduct a physical inventory every 3 mo and possessed pursuant to 10 CFR 35.59, 10 CF nd/or devices. Records of inventories shall be m and shall include the information required in 10	R 35.400 and every 6 months for all other naintained for 5 years from the date of each					
16.	16. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.							
17.	 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. 							

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 18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material." 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 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 March & 2005; B. Letters dated September 10, 1990, October 18, 2006, November 14, 2006, and January 15, 2007; and C. Facsimile dated April 20, 2005, transmitting letter dated for ber 29, 2003; and D. Facsimile letter dated April 22, 200 					
		FOR THE	U.S. NUCLEAR REGULATORY COMMISSION		
Date	e		Reichhold n P. Reichhold als Licensing Branch		