NRC FORM 374	U.S. NUCLEAR REGULAT	ORY COMMISSION	PAGE <u>1</u> OF <u>4</u> PAGES Amendment No. 77		
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 here eft er in effect and to any conditions specified below.					
Licensee		In accordance with May 10, 2007,	th letter dated		
1. Lakeland Medical Center, St. Jos	eph		21-04177-01 is amended ead as follows:		
2. 1234 Napier Avenue		4. Expiration date F	ebruary 28, 2015		
St. Joseph, MI 49085	EARR	5. Docket No. 030- Reference No.	02049		
6. Byproduct, source, and/or special nuclear material Chemical and/or physical form nuclear material					
A. Any byproduct material permitted by 10 CFR 35.100	A. Any	174 - 1 174 - 1	A. \checkmark 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. ≩ s needed, not to exceed 1 - curie of I-131		
D. Any byproduct material permitted by 10 CFR 35.400	MED 3631	ces (314 Model 6502, 6503, EA Model No. Th American c., Model No. Best Meorcal I, Inc. Model 81-	D. Not to exceed 165 millicuries for cesium-137, not to exceed 1 curie for iodine-125 and not to exceed 100 millicuires for iridium-192		
E. Gadolinium-153	E. Sealed sour American S Model 3601	cientific ,Inc.	E. 4 sources not to exceed 250 millicuries each		
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.					
D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.					

NRC FO	DRM 374A	U.S. NUCLEA	R REGULATORY COMM	ISSION	PAGE 2 of 4 PAGES
MATERIALS LICENSE SUPPLEMENTARY SHEET		License Number 21-04177-01 Docket or Reference Number 030-02049 Amendment No. 77			
E. Two sources to be used in Adac Laboratories Transmission Line Source Housing VANTAGE device for medical radiography in humans. Two sources in shipping containers for replacement of the sources.					
10. A. Licensed material shall be used only at the licensee's facilities located at Lakeland Medical Center - St. Joseph, 1234 Napier Avenue, St. Joseph, Michigan.					
B. Licensed material listed in subiteras 6.A., 6.B., 6.C., 6.D. (Imited to iodine-125) and 6.E. may be used at Lakeland Medical Center - Niles, 31 North Saint Joseph Avenue, Niles, Michigan					
11. Ra	adiation S	Safety Officer for this li	cense is David E. S	Sieffer	rt, M.S.
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.					
В.	B. The following individuals are authorized upper pedical uses:				
	4	Authorized Users		Ma	iterial and Use
	١	William F. Leahen, M.D	10 C amin or ec VAN	nistratio qual to	5.100, 35.200, 35,300 (for iodine-131, oral ion of sodium iodide-131 in quantities less than o 33 millicuries) and gadolinium-153 in E device for medical radiography.
	F	Roman Hyszczak, M.D	. 🕂 🖈 10	FR C	5.100, 35.200 and gadolinium-153 in VANTAGE medical radiography.
	[Daniel F. Kreider, M.D.			5.100, 35.200, 35.300 and gadolinium-153 in E device for medical radiography.
	ł	Kent T. Lancaster, M.D			5.100, 35.200, 35.300 and gadolinium-153 in E device for medical radiography.
	E	Brad Bastow, M.D.			5.100, 35.200 and gadolinium-153 in VANTAGE medical radiography.
	[Dilip Arora, M.D.			5.100, 35.200 and gadolinium-153 in VANTAGE medical radiography.

		COMMISSION PAGE 3 of 4 PAGES			
		License Number 21-04177-01			
MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Number 030-02049			
		Amendment No. 77			
	Brian T. Eller, M.D.	10 CFR 35.100 and 35.200.			
	Srinivasan Dhatreecharan, M.D.	10 CFR 35.100 and 35.200.			
	Peter Lai, M.D.	10 CFR 35.300 and 35.400.			
	Jose Cassini Pacheco, M.D.	10 CFR 35.100 and 35.200.			
	Denis L. Gibbs, D.O.	10 CFR 35.100 and 35.200.			
	Mark Ottmar, M.D.	$R \in G$ 10 CFR 35.100 and 35.200. 10 CFR 35.100 and 35.200.			
	Thomas K. Pow, M.D.	10 CFR 35.100 and 35,200.			
	Ogubay Mesmer, M.D.	10 CFR 35.100 and 35.200			
	Thomas J. Dewind, M.D.	10 CFR 35.106, 35.200 and 35.300			
13. For	sealed sources not associated with 10 CFF	R Part 35 use, the following conditions apply:			
A.	A. Sealed sources shall be tested for leakage anovor 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.	B. 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(3). 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 out into use until tested and the test results received.				
C.	Sealed sources need not be tested if they gamma-emitting material.	contain not more than 100 microcuries of beta- and/or			
D.	are removed from storage for use or trans the required leak test interval, they shall be	are in storage and are not being used; however, when they ferred to another person and have not been tested within e tested before use or transfer. No sealed source shall be without being tested for leakage and/or contamination.			
E.	radioactive material on the test sample. If (185 becquerels) or more of removable co Regulatory Commission in accordance wit	the presence of 0.005 microcurie (185 becquerels) of the test reveals the presence of 0.005 microcurie ntamination, a report shall be filed with the U.S. Nuclear h 10 CFR 30.50(c)(2), and the source shall be removed ated, repaired, or disposed of in accordance with			

NRC	C FORM 374A U.S. NUCLEAR REGULATOR		PAGE 4 of 4 PAGES			
			License Number 21-04177-01			
			Docket or Reference Number 030-02049			
	SUPPLEMENTARY SHEET		Amendment No. 77			
	F. 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.					
14.	 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. 					
15.	The licensee may transport licensed material "Packaging and Transportation of Radioactive C.P.		e with the provisions of 10 CFR Part 71, U_{1}			
16.	In addition to the possession limits in Condition licensed material to quantities below the mining decommissioning financial assurance.					
17.	Sealed sources containing licensed material s by the licensee.	shall not be op	bened or sources removed from source holders			
18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representation and procedures contained in the documents, including any enclosures, listed below. This license common 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 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 December 28, 2004;		*			
	B. Letters dated October 12, 2006 and May	10, 2007.				
		FOR THE U	I.S. NUCLEAR REGULATORY COMMISSION			
Dat	eJUL 1 6 2007	•	Simmons Licensing Branch			