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U.S. NUCLEAR REGULATORY COMMISSION

PAGES Amendment No. 76

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 November 27, 2006, 3. License number 21-04177-01 is amended Lakeland Medical Center, St. Joseph in its entirety to read as follows: 4. Expiration date February 28, 2015 2. 1234 Napier Avenue 5. Docket No. 030-02049 St. Joseph, MI 49085 Reference No. Chemical and/or physical form 8. Maximum amount that licensee may 6. Byproduct, source, and/or special possess at any one time under this nuclear material license As needed Any byproduct material permitted by 10 CFR 35.100 As needed B. Any byproduct materiato Any permitted by 10 CFR/35.200 C. As needed, not to exceed 1 C. Any byproduct material curie of I-131 permitted by 10 CFF 35.300 D. Not to exceed 165 millicuries D. Any byproduct material for cesium-137, not to permitted by 10 CFR \$5.400 exceed 1 curie for iodine-125 and not to exceed 100 millicuires for iridium-192 International, Inc. Model 815 01 Series) Gadolinium-153 4 sources not to exceed 250 American Scientific ,Inc. millicuries each Model 3601)

9. **Authorized Use:**

- Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
- Any imaging and localization study permitted by 10 CFR 35.200.
- Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
- Any manual brachytherapy procedure permitted by 10 CFR 35.400. D.

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	Ε.	for medical radiography in humans. Two sources.	sources in s	I hission Line Source Housing VANTAGE device hipping containers for replacement of the
		<u>C</u>	<u>ONDITIONS</u>	
10.	A.	Licensed material shall be used only at the St. Joseph, 1234 Napier Avenue, St. Joseph		facilities located at Lakeland Medical Center - in.
	В.	Licensed material listed in subitems 6.A., used at Lakeland Medical Center - Niles,		i.D. (limited to iodine-125) and 6.E. may be int Joseph Avenue, Niles, Michigan
	C.		J.SRNÆIGGF	y be used at temporary job sites of the licensee Regulatory Commission maintains jurisdiction
11.	Rac	liation Safety Officer for this license is Dav	vid E. Sieffer	t, M.S.
12.	Lice	ensed material is only authoused for use b	y, or under t	ne supplied of:
	A.	F 330	rized user i	ance with 0 CFR 35.13 and 35.14.
	B.	H	users for me	ses:
		Authorized Users		.100 200, 35,300 (for iodine-131, oral
		William F. Leabey, M.	al to AGE	.100 £200, 35,300 (for iodine-131, oral process of the second sec
		Roman Hyszczak, M.D.		.100, 35.200 and gadolinium-153 in VANTAGE medical radiography.
		Daniel F. Kreider, M.D.		.100, 35.200, 35.300 and gadolinium-153 in device for medical radiography.
		Kent T. Lancaster, M.D.		.100, 35.200, 35.300 and gadolinium-153 in device for medical radiography.
		Brad Bastow, M.D.		.100, 35.200 and gadolinium-153 in VANTAGE medical radiography.
		Dilip Arora, M.D.		.100, 35.200 and gadolinium-153 in VANTAGE medical radiography.

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			License Number 21-04177-01				
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-02049					
i		Amendment No. 76					
	.						
	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.		.100 and 35.200.				
	Thomas K. Pow, M.D.	1 RCE R@5	.100 and 35.200.				
	Ogubay Mesmer, M.D.		.100 and 35.200				
	Thomas J. DeWind, M.D.	10 CFR 35.	.100, 35.200 and 35.300				
13. For s	sealed sources not associate 10 CF	R Part 35 us	ollowing conditions apply:				
		ge and/or d	ation at intervals not to exceed the the U.S. Nuclear Regulatory Commission Agreement State.				
:	In the absence of a certific component of the certific component of th		ting the a leak test has been made within the ed the he U.S. Buclear Regulatory Commission of ab Agreement State, prior to the transfer, a put into use until tested and the test results				
	Sealed sources need not be test if they gamma-emitting material.	y contain not	re than 100 microcuries of beta- and/or				
;	are removed from storage for use or tran	sferred to an	ge and are not being used; however, when they other person and have not been tested within				

D. 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.

E. 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.

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MATERIALS LICENSE SUPPLEMENTARY SHEET					Docket 030-0	or Reference Nu 2049	mber							
								Amen	dment No. 7	76				
	F.	Tests for performe Commiss	d by the	licensee	or by otl	her perso	ons spec	fically lic	sample collecensed by these.	ction and le U.S. N	ł ana lucle	ilysis ar Re	, sha ∋gula	all be atory
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 in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material." 													
16.	lice	nddition to nsed mate commission	erial to q	uantities	below the	ondition	8, the lic	ensee sl pecified	hall further rein 10 CFR 3	estrict th 30.35(d)	e pos for es	sses: stabl	sion ishin	of g
17.		aled source he license		ining lise	nsed ma	iterial sha	all not be	opened	or sources	removed	l fron	า รоเ	ırce	holders
18.	acc any be s lice The	ept as spe ordance we enclosure submitted nsee's abi e Nuclear F I procedure ulations.	vith the ses, listed in according to macket the second in	tatement below. Sance wi ake chan	s, N This th th gas t	ation ond tion	license, sand pr lition app L. As ditio		to those produced is license contained in the second in th	in the do cedures andition of dided for atement	that loes in 1 s, rep	ents are not li 0 CF	, incl requ imit t R 35 entat	ired to the 5.26.
	A.	Application	on dated	l Decemb	per 20, 2	9 4;		M						
	B.	Letter da	ated Oct	ober 12, 2	80g. ¥	/ *	**	*	4					
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James R. Mullauer, M.H.S.
Malerials Licensing Branch
Region III

MAY 1 0 2007

Date ____