NRC FORM 374 U.S. NUCL	LEAR REGULATORY COMMISSION	PAGE <u>1</u> OF <u>5</u> PAGES Amendment No. 58		
MATERIALS LICENSE				
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 deerned 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			
1. Marquette General Health System		ceived June 26, 2007, 1-05432-04 is amended in as follows:		
2. 580 West College	4. Expiration date Ju			
Marquette, MI 49855-2705	5. Docket No. 030-1	8133		
	R R E Reference No.			
6. Byproduct, source, and/or special 7. Cherr nuclear material	nical and/or physical form $\begin{pmatrix} 2 \\ 7 \end{pmatrix}$ 8.	Maximum amount that licensee may possess at any one time under this license		
	Any	A. As needed		
B. Any byproduct material B. permitted by 10 CFR 35.200	Any	B. As needed		
C. Any byproduct material C. permitted by 10 CFR 35.300	Any	C. As needed (not to exceed an e curies of iodine-131)		
10 CFR 35.400	Sealed sources (Amersham Model No. CDC.T1, 3M Model No. Series 6500 - 6503, inclusive, and isotope Products Laboratories Model 67-6500 Series)	D: 31400 millicuries		
1	Sealed sources (Best Medical International, Inc. Model 81-01)	E. 600 millicuries		
10 CFR 35.400	Sealed source (Victoreen/Nuclear Associates Model No. 67- 850)	F. 125 millicuries		
10 CFR 35.1000	Sealed sources as SIR- Spheres (AEA Technology QSA , Inc.)	G. 1.08 curies		
H. lodine-125 as permitted by H. 10 CFR 35.1000	Liquid as lotrex [™]	H. 3 curies		
I. Uranium (depleted in I. Uranium-235)	Solid metal	I. As needed		

NR	C F	ORM 374A U.S. NUCLEAR REGULATORY COMMISSION	PAGE 2 of 5 PAGES
			License Number 21-05432-04
MATERIALS LICENSE			Docket or Reference Number 030-18133
			Amendment No. 58
			L
	 Byproduct, source, and/or special Chemical and/or physical form Maximum amount that licensee may possess at any one time under this license 		
J.	J. Cesium-137 J. Sealed Source (Amersham J. Not to exceed 165 millicuries Model 77302)		
9.	A	Authorized Use:	
	A	A. Any uptake, dilution and excretion study permitted by	10/CFR 35.100.
	E	3. Any imaging and localization study permitted by 10 Cl	FR 35.200.
i	C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.		
	D. and E. Any manual brachytherapy procedure permitted by 10 CFR 35.400,		
	F. For storage or for any manual ophthalmic brachytherapy procedure permitted by 10 CFR 35.400.		
	G. For medical use, as permitted by 10 control 000, in a Sirtex Medical Limited brachytherapy afterloader delivery system.		
	H. For use in the Proxima Therapeutics' GliaSite® Radiotherapy System for medical use permitted by 10 CFR 35.1000.		
	ł.	Shielding in generators. \mathcal{V}_{γ}	4 ⁰
	J. For use in Amersham Corporation mode 773 survey instrument calibrator for the non-commercial calibration of the licensee's own radiation detection and radiation measuring devices.		
	CONDITIONS		
10.		ocations of Use: 420 W. Magnetic Street, Marquette, Mic /lichigan.	higan, and 580 W. College Avenue, Marquette,
11.	11. Radiation Safety Officer: Julia M. (Shan) Marlette, M.S.		
12.	12. Licensed material is only authorized for use by, or under the supervision of:		
	А	Individuals permitted to work as an authorized user and with 10 CFR 35.13 and 35.14.	d/or authorized medical physicist in accordance

NRC FOF	M 374A U.S. NUCLEAR REGULATORY	COMMISSION	PAGE 3 of 5 PAGES
			License Number 21-05432-04
MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Number 030-18133	
			Amendment No. 58
В.	The following individuals are authorized u	sers for med	dical use as indicated:
	Authorized Users	Material an	d Use
	John Michael Pap, M.D.	10 CFR 35	.100 and 35.200.
	Paul O. Thieme, Jr., D.O.	Medical Lin	.300, 35.400, yttrium-90 SIR-spheres in a Sirtex nited brachytherapy afterloader delivery system, -125 in the Proxima Therapeutics' GliaSite® py system.
	Raymond Wood, D. O.	10 CFR 35	.200. 9
	Julia M. (Shan) Marlette M.S.	Material lis	sted in Item 6.Jp
	Christopher J. Mehall, M.D.	10 CFR 35	.100, 35.200 and 35.300.
	Nelson E. Gencheff, D.O.	10 CFR 35	.200.
	Steve Min, D.O.	35	.100, 35.200 and 35.300.
	Robert Morley, D.O.	10 CFR 35	.100, 35,200 and 35.300.
	Gary M. Friesen, M.D.	10 CER 35	.200.
	Douglas W. Morton, M.D.	10 CFR 31 iodide-131	5.100, 35.209, and 35.300 (limited to sodium for diagnetic imaging and localization studies).
	Charles S. Henry, M.D.		.100, 35.200 and 35.300.
	Muhammed Imran Choudhry, M.D.	Oral admir	nistration of iodine-131.
C.	The following individual is an Authorized Medical Physicist:		
	Julia M. (Shan) Marlette, M.S.	35.400 an	90 ophthalmic sources permitted by 10 CFR d iodine-125 in the Proxima Therapeutics' adiotherapy System; for calibration, spot checks
13. For	13. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply:		
A.	A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.		

NR		RM 374A	A U.S. NUCLEAR REGULATORY COMMISSION	PAGE 4 of 5 PAGES
]	License Number 21-05432-04
			MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-18133
				Amendment No. 58
				·
	В.	6 mo	ne absence of a certificate from a transferor indic onths prior to the transfer, a sealed source or dete out into use until tested.	
	C.	Seal	led sources need not be leak tested if:	
		(I)	they contain not more than 100 microcuries of be	eta and/or gamma emitting material;
		(ii)	they are not designed to emit alpha particles, are when they are removed from storage for ase or tra- tested within the required leaf test interval, they s source or detector cell shall be stored for a period leakage and/or contamination.	ransferred to another person, and have not been shall be tested before use or transfer. No sealed
		(iii)	the half-life of the isotope is 30 days or less; or	
		(iv)	they contain not more th an 100 m icrocuries of be than 10 microeuries of alpha emitting material; o	
		(v)	they are not designed to emit alpha periods are when they are removed from storage for use or tra tested within the required bak test interval, they s source or detector cell shall be stored for a period leakage and/or contamination.	ansferred to another person, and have not been shall be tested before use or transfer. No sealed
	D.	radio becq Regu imme	leak test shall be capable of detecting the prese bactive material on the test sample. If the test re querels) or more of removable contamination, a ulatory Commission in accordances with 40 Critic ediately from service and decontaminated, repaired lations.	eveals the presence of 0.005 microcurie (185 a report shall be filed with the U.S. Nuclear 30.50(c)(2), and the source shall be removed
	E.	Tests spec	is for leakage and/or contamination shall be per cifically licensed by the Commission or an Agreem	rformed by the licensee or by other persons ient State to perform such services.
14.	. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.			
15.	. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.			

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NRC	FORM 374A U.S. NUCLEAR REGULATORY COMMISSIO	N PAGE 5 of 5 PAGES	
		License Number 21-05432-04	
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-18133	
		Amendment No. 58	
	16. 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.		
	17. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."		
	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 apples 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 regtrictive than the regulations.		
	A. Application dated December 30, 2003; and,		
	B. Letters dated December 30, 20 03, July 1, 2004, April 11, 200 5, and May 25, 2005.		
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	FOR TH	U.S. NUCLEAR REGULATORY COMMISSION	
Date	Colleg	<u>licen and Carey</u> n Carol Casey als Licensing Branch n III	