

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

January 5, 2005

License No. 06-00253-04

Docket No. 03001239 Control No. 136223

Peter Mas Radiation Safety Officer Hartford Hospital 80 Seymour Street Hartford, CT 06102

SUBJECT: HARTFORD HOSPITAL, ISSUANCE OF LICENSE AMENDMENT, CONTROL NO. 136223

Dear Mr. Mas:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Please note that on October 25, 2004, the NRC suspended public access to ADAMS, and initiated an additional security review of publicly available documents to ensure that potentially sensitive information is removed from the ADAMS database accessible through the NRC's web site. Interested members of the public may obtain copies of the referenced documents for review and/or copying by contacting the NRC Public Document Room pending resumption of public access to ADAMS. The NRC Public Document Room is located at NRC Headquarters in Rockville, MD, and can be contacted at 800-397-4209 or 301-415-4737 or pdr@nrc.gov.

Thank you for your cooperation.

Sincerely,

Original signed by Tara L. Weidner

Tara L. Weidner Health Physicist Medical Branch Division of Nuclear Materials Safety P. Mas Hartford Hospital

Enclosure: Amendment No. 93 P. Mas Hartford Hospital

DOCUMENT NAME: E:\Filenet\ML050050508.wpd

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DATE	1/5/05				

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NR	C FORM 374A U.S. NUCLEA	U.S. NUCLEAR REGULATORY COMMISSION		License Numbe	r	PAGE 2 of 12 PAGES	
	MATERIALS LIC SUPPLEMENTARY	EN SHE	SE Docket or Refe 030-01239		-04 erence Number 9		
				Amendment No. 93			
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/or physical f	orm	8.	Maximum amount that licensee may possess at any one time under this license	
I.	Phosphorus 32	I.	Any		I.	100 millicuries	
J.	Sulfur 35	J.	Any		J.	20 millicuries	
K.	Chromium 51	K.	Any AR REG	iu,	K.	20 millicuries	
L.	Technetium 99m	Ð)	Any	~4,	L.	200 millicurie	
M.	lodine 125	M.	Any		M.	20 millicuries	
N.	lodine 131	N.	Any		N.	20 millicuries	
О.	Ytterbium 169	0.	Any	0352	О.	20 millicuries	
Ρ.	Nickel 63	Ρ.	Foil contained in Hev Packard Model 1872 detector cell	vlett- 4A	P.	Not to exceed 15 millicuries per source and 150 millicuries total	
Q.	Cesium 137	Q.	Sealed sources (Oak Ridge National Laboratories Model I	SO-1000)	Q.	720 curies	
R.	Cesium 137	R.	Sealed source (J. L. Model 6810)	Shepherd	R.	225 millicuries	
S.	Strontium 90	S.	Sealed source (Nucle Enterprises Model 25	ear 503/3)	S.	10 millicuries	
Τ.	Strontium 90/Yttrium 90	Τ.	Sealed Sources [BEE Model Sr0.S03 or AE Series (SICW.1 and	BIG AT SICW SICW.2)]	Τ.	5.0 millicuries per source; 800 millicuries total	
U.	Iridium-192 permitted by 10 CFR 35.600	U.	Sealed Sources [Nuc Model 105.002 (man by Mallinckrodt Medic or AEA Technology)]	cletron ufactured cal B.V.	U.	12 curies per source and 22 curies total	
9.	Authorized use:						
A. B. C. D.	Any uptake, dilution and excretion Any imaging and localization stuc Any diagnostic study or therapy p Any manual brachytherapy proce	n stu ly pe broce dure	udy permitted by 10 C ermitted by 10 CFR 35 edure permitted by 10 e permitted by 10 CFF	FR 35.100. 5.200. CFR 35.30 35.400.	0.		

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E. F. G. t P. Q. R. a T.	 E. Diagnostic medical use of sealed sources permitted by 10 CFR 35.500 in compatible devices registered pursuant to 10 CFR 30.32(g). F. One source assembly for medical use in a Cordis Checkmate intravascular brachytherapy remote afterloader unit. One source assembly in its shipping container as necessary for replacement of the source assembly in the intravascular brachytherapy remote afterloader unit. G. through O. Research and development as defined in 10 CFR 30.4; animal studies. P. For use in gas chromatographs for sample analysis. Q. For use in an AECL Gammacell, Model 1000A Irradiator for the irradiation of material except explosives, flammables, or corrosives. R. and S. For instrument calibration. T. One source assembly for medical use in a Novoste A1000 series intravascular brachytherapy remote afterloader unit. U. One source for medical use permitted by 10 CFR 35.600, in a Nucletron Corp. Model 105.999 remote afterloader unit. The source shall not exceed 10 curies at the time of installation. One source in its shipping container as necessary for replacement of the source in the remote afterloader unit. 						
		CONDITIONS	3,1, X				
10.	A.	Licensed material may be used or stored only at the l 80 Seymour Street, Hartford, Connecticut.	icensee's facilities located at Hartford Hospital,				
	В.	Only licensed material listed in 6.A., 6.B., 6.C. and 6. Childrens Medical Center (CCMC), 282 Washington S	D. may be used or stored at Connecticut Street, Hartford Connecticut.				
	C.	Only licensed material listed in 6.A., 6.B. and 6.E. ma Suite 202, Avon, Connecticut.	y be used or stored at 100 Simsbury Road,				
	D.	Only licensed material listed in 6.B. and 6.E. may be Glastonbury, Connecticut.	used or stored at 704 Hebron Avenue,				
	E.	Only licensed material listed in 6.A., 6.B. and 6.E. ma Suite 811, Hartford, Connecticut.	y be used or stored at 100 Retreat Avenue,				
	F.	Only licensed material listed in 6.A, 6.B. and 6.E. may Highway, Suite 106, Wethersfield, Connecticut.	y be used or stored at 1260 Silas Deane				
11.	11. The Radiation Safety Officer for this license is Peter J. Mas, M.S.						

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12. Licens	sed material is only authorized for use by, or u	under the supervision of:				
A. In w	ndividuals permitted to work as an authorized with 10 CFR 35.13 and 35.14.	user, and/or authorized medical physicist in accordance				
В. Т	he following individuals are authorized users f	for medical use as indicated:				
<u> </u>	Authorized Users	Material and Use				
	William J. Aberizk, M.D.	35.300; 35.400; Iridium 192 for intravascular brachytherapy procedures and in a High Dose Rate afterloader unit; Strontium 90/Yttrium 90 in Novoste A1000 series				
		systems				
	Ludith A. Bucklov M.D.	35 300: 35 400: Iridium 192 for intravascular				
·	Suditi A. Buckley, M.D.	brachytherapy procedures and in a High Dose Rate afterloader unit; Strontium 90/Yttrium 90 in Novoste A1000 series systems				
I	Edward Bowen Cronin, M.D.	35.100; 35.200; 35.300; 35.500				
I	Robert J. Dowsett, M.D.	35.300; 35.400; Iridium 192 for intravascular brachytherapy procedures and in a High Dose Rate afterloader unit; Strontium 90/Yttrium 90 in Novoste A1000 series systems				
	Gary V. Heller, M.D.	35.100; 35.200; 35.500				
	Allan S. Kratzer, M.D.	35.300; 35.400; Iridium 192 for intravascular brachytherapy procedures and in a High Dose Rate afterloader unit; Strontium 90/Yttrium 90 in Novoste A1000 series systems				
I	Richard M. Linburg, M.D.	35.500				

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5	OPPLEMENTARY SHEET		Amendment No. 93	
Jacqueline	e M. Lyon, M.D.	35.30 brach Dose 90/Ytt syster	00; 35.400; Iridium 192 for intravascular hytherapy procedures and in a High Rate afterloader unit; Strontium trium 90 in Novoste A1000 series	
Ronald J.	Rosenberg, M.D.	35.10	00; 35.200; 35.300; 35.500	
Andrew L.	Salner, M.D.	35.30 brach Dose 90/Ytt syster	00; 35.400; Iridium 192 for intravascular hytherapy procedures and in a High Rate afterloader unit; Strontium trium 90 in Novoste A1000 series	
Paul R. C.	. Sullivan, M.D.	35.10	00; 35.300	
Helaine Bo	ertsch, M.D.	35.30 brach Dose 90/Ytt syster	0; 35.400; Iridium 192 for intravascular hytherapy procedures and in a High Rate afterloader unit; Strontium trium 90 in Novoste A1000 series	
Kenneth L	eopold, M.D.	35.30 brach Dose 90/Ytt syster	00; 35.400; Iridium 192 for intravascular nytherapy procedures and in a High Rate afterloader unit; Strontium trium 90 in Novoste A1000 series	
John Opal	lacz, M.D.	35.10	00; 35.200; 35.300; 35.500	
Christophe	er J. Leary, M.D.	35.10	00; 35.200; 35.500	
Roger Shi	h-Shien Yang, M.D.	35.10	00; 35.200; 35.500	
Allen A. C	urrier, M.D.	35.10	00; 35.200; 35.500	
Timothy S	. Boyd, M.D.	35.30 brach Dose 90/Ytt syster	00; 35.400; Iridium 192 for intravascular hytherapy procedures and in a High Rate afterloader unit; Strontium trium 90 in Novoste A1000 series	
Abdul Alke	eylani, M.D.	35.100	0; 35.200; 35.500	
Mary C. de	eGroot, M.D.	35.100	0; 35.200; 35.500	

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Melissa Fe	erraro-Borgida, M.D.	35.100); 35.200; 35.500					
Brett Dung	can, M.D.	35.100); 35.200; 35.500					
Andrea T.	Fossati, M.D.	35.100); 35.200; 35.500					
Michael S	. Fowler, M.D.	35.100); 35.200; 35.500					
Carol Y. G	Gemayel, M.D.	35.100); 35.200; 35.500					
M. Reza N	lansoor, M.D.	35.100); 35.200; 35.500					
Asad A. R	lizvi, M.D.	35.100; 35.200; 35.500						
Ahmad Sa	alloum, M.D.	35.100; 35.200; 35.500						
Steven B.	Goldblatt, M.D.	35.100; 35.200; 35.500						
Susan Y.	Kim, M.D.	35.300; 35.400; Iridium 192 for intravascular brachytherapy procedures and in a High Dose Rate afterloader unit; Strontium 90/Yttrium 90 in Novoste A1000 series systems						
Stephen H	H. Hauser, M.D.	35.300 brachy afterlo A1000	0; 35.400; Iridium 192 for intravascular therapy procedures and in a High Dose Rate ader unit; Strontium 90/Yttrium 90 in Novoste series systems					
C. The following	ng individuals are authorized users t	for non	-medical uses as indicated:					
Authoriza		Motor	ial and Lise					
Paymond		Nicko						
Kaymond	Bow Db D	NICKEI 03						
Laurine M	. DOW, FII.D.	Hydrogen 3; Carbon 14; Phosphorus 32; Sulfur 35; Chromium 51; Iodine 125						
Peter J. M	las, M.S.	Cesium 137 for instrument calibration						
Robert E.	Moore, Ph.D.	Hydro Sulfur Techr Cesiu	gen 3; Carbon 14; Phosphorus 32; 35; Chromium 51; Nickel 63; netium 99m; Iodine 125; Iodine 131; m 137; Ytterbium 169					
Robert E.	Rice, M.S.	Stron	ium 90 for instrument calibration					

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Ronald 、	J. Rosenberg, M.D.	Hydrogen 3; Carbon 14; Phosphorus 32; Sulfur 35; Chromium 51; Nickel 63; Technetium 99m; Iodine 125; Iodine 131; Cesium 137; Ytterbium 169
Robert S	Schweizer, M.D.	Hydrogen 3; Carbon 14; Phosphorus 32; Sulfur 35; Chromium 51; Nickel 63; Technetium 99m; Iodine 125; Iodine 131; Cesium 137; Ytterbium 169
Herbert	Silver, M.D.	Hydrogen 3 Cesium 137 for irradiation of material
Gregory	J. Tsongalis, Ph.D.	Hydrogen 3; Phosphorus 32; Sulfur 35
Charles	L. Woronick, Ph.D.	Chromium 51; Iodine 125
	Y EY	
Bradford	Sherburne, M.D.	Cesium 137 for irradiation of material
D. The follow	ving individuals are authorized mo	edical physicists as indicated:
Authoriz	ed Medical Physicists	Material and Use
Janet D.	Gortney	Iridium 192 and Sr90/Y90 in an Intravascular Brachytherapy Afterloader Device and High Dose Rate remote afterloader unit for calibrations, spot-checks, and training
Iwona S	5. Miazek	Iridium 192 and Sr90/Y90 in an Intravascular Brachytherapy Afterloader Device and High Dose Rate remote afterloader unit for calibrations, spot-checks, and training
Jay Fried	dman	Iridium 192 and Sr90/Y90 in an Intravascular Brachytherapy Afterloader Device and High Dose Rate remote afterloader unit for calibrations, spot- checks, and training

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	Authorized Medi	cal Physicists	Materi	al and Use	
	Robert E. Rice,		Iridiun Intrava Device afteric and tra	n 192 and Sr90/Y90 in an ascular Brachytherapy Afterloader e and High Dose Rate remote ader unit for calibrations, spot-checks, aining	
	Kevin Norton	SHUCLER	Iridium Intrava Device afteric and tra	n 192 and Sr90/Y90 in an ascular Brachytherapy Afterloader e and High Dose Rate remote ader unit for calibrations, spot-checks, aining	
	Kevin O. Khadivi	, Ph.D.	Iridium Intrava Device afteric and tra	n 192 and Sr90/Y90 in an ascular Brachytherapy Afterloader and High Dose Rate remote ader unit for calibrations, spot-checks, aining	
	Douglas E. Bocc	uzzi	Iridium Intrava Device afteric and tra	n 192 and Sr90/Y90 in an ascular Brachytherapy Afterloader e and High Dose Rate remote ader unit for calibrations, spot-checks, aining	
E.	Intravascular brac	hytherapy procedures shall b	e cond	ucted under the supervision of the authorized	

- E. Intravascular brachytherapy procedures shall be conducted under the supervision of the authorized user, who will consult with the interventional cardiologist/physician and authorized medical physicist prior to initiating treatment. The procedures shall be conducted in the physical presence of the authorized user or the authorized medical physicist.
- 13. 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), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.
- 14. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.

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15. In li	15. In lieu of the source inventory described in 10 CFR 35.406, the licensee shall:					
Α.	Promptly determine that all sources have been return conclusion of each intravascular brachytherapy proc	ned to the safe, shielded position at the edure.				
В.	Promptly make a survey of the area of use to confirm	n that no sources have been misplaced.				
C.	Make a record of the survey including survey instrur individual making the survey.	nent used, dose rate, time, date and name of the				
D.	Retain the record of the survey in lieu of the record	required in 10 CFR 35.2406.				
16. In int inti the rec	16. In lieu of 10 CFR 35.404, immediately after retracting the source from the patient into its shielded position in the intravascular brachytherapy device, a radiation survey shall be made of the patient and the intravascular brachytherapy device with a portable radiation detection survey instrument to confirm that the source has been removed from the patient. Records of the survey shall be maintained in lieu of the record required in 10 CFR 35.2404.					
17. Fo	r 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 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.					
Β.	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.S. 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 put into use until tested and the test results received.					
C.	Sealed sources need not be tested if they are in sta are removed from storage for use or transferred to the required leak test interval, they shall be tested stored for a period of more than 10 years without b	brage and are not being used; however, when they another person and have not been tested within before use or transfer. No sealed source shall be eing tested for leakage and/or contamination.				
5						

D. 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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	E.	Tests fo perform Commis	or leakage and/or contamination, including lea ed by the licensee or by other persons specifi ssion or an Agreement State to perform such s	k test sample collection and analysis, shall be ically licensed by the U.S. Nuclear Regulatory services.	
	F.	Records	s of leak test results shall be kept in units of m	icrocuries and shall be maintained for 5 years.	
18.	Sea fron	aled soure n source	ces or detector cells containing licensed mate holders by the licensee.	rial shall not be opened or sources removed	
19.	19. 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. 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 number, and the date of the inventory.				
20.	Mai peri an /	ntenance formed o Agreeme	e, repair, cleaning, replacement, and disposal nly by the device manufacturer or other perso nt State to perform such services.	of foils contained in detector cells shall be ns specifically authorized by the Commission or	
21.	Exp mat	erimenta erials sha	al animals, or the products from experimental a all not be used for human consumption.	animals, that have been administered licensed	
22.	The dec	e licensee ay-in-sto	e is authorized to hold radioactive material with rage before disposal in ordinary trash, provide	h a physical half-life of less than 120 days for ed:	
	Α.	Waste t	o be disposed of in this manner shall be held	for decay a minimum of ten half-lives.	
	B. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.				
	C. A record of each such disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.				
23.	23. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."				

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24.	The intrav recommer or persons perform su	ascular brachytherapy afterloader device shall b nded by the manufacturer, and maintenance and s specifically licensed by the U.S. Nuclear Reguluch services.	be inspected and serviced at intervals d repair shall be performed by the manufacturer latory Commission or an Agreement State to
25.	Except as accordance any enclose be submitted licensee's The U.S. If representation than the reference	specifically provided otherwise in this license, the se with the statements, representations, and pro- sures, listed below. This license condition applie ted in accordance with the regulations. Addition ability to make changes to the radiation protect Nuclear Regulatory Commission's regulations shations, and procedures in the licensee's applicate egulations.	ne licensee shall conduct its program in cedures contained in the documents, including es only to those procedures that are required to nally, this license condition does not limit the ion program as provided for in 10 CFR 35.26. nall govern unless the statements, tion and correspondence are more restrictive
	 A. Applid B. Letter C. Letter D. Letter E. Letter F. Letter G. Letter H. Letter I. Letter J. Letter K. Letter M. Letter N. Letter N. Letter Q. Letter R. Letter G. Letter V. Letter K. Letter D. Letter D. Letter 	cation dated October 5, 1990 dated April 23, 1991 dated June 11, 1993 dated June 14, 1993 dated June 21, 1993 dated August 11, 1993 dated August 31, 1993 dated August 31, 1994 dated March 11, 1994 dated March 11, 1994 dated September 1, 1994 dated January 13, 1995 dated June 24, 1996 dated October 30, 1996 dated December 22, 1997 dated May 5, 1999 dated December 18, 1999 dated October 2, 2000 dated April 3, 2001 dated April 3, 2001 dated April 3, 2001 dated July 2, 2001 dated July 2, 2001 dated July 31, 2001 dated July 31, 2002 dated July 14, 2003 dated April 2, 2004	nobile HDR services

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For the 0.3. Nuclear Regulatory Commission								
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