vananaa oo ka oo abbaa oo ba

April 18, 2011

U.S. Nuclear Regulatory Commission Region III Materials Licensing Branch 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

Via Fax: 630-515-1078

Re: NRC License No. 24-00128-03

Dear Reader:

We hereby request amendment of our license to release, for unrestricted use, our former brachytherapy storage room located at 1701 Lacey Street. This room is no longer used for storage or use of radioactive material.

We request that this application be processed without unnecessary delay. The former radiation therapy department in which this room is located has been vacated and is slated for demolition and renovation. We would appreciate anything you can do to avoid unnecessary delay of the renovation project by this regulatory process.

Attached is a historical review of licensed material possessed in this room. On April 15, 2011, the strontium-90 eye applicator was relocated to our west campus facility at 817 South Mt. Auburn Road, and the entire inventory of cesium-137 brachytherapy sources was transferred to R. M. Wester and Associates, Inc., at 215 Indacom, St. Peters, Missouri.

Also attached are:

- Decommissioning Report and Closeout Survey
- Floor plan diagram showing location of the former Brachytherapy Storage room.
- Copies of the most recent leak results of sources that were stored in this room.

If you have any questions regarding this matter, please feel free to contact our Radiation Safety Officer, Sam Hancock, Ph.D., at 573-519-4710 (office) or 573-270-7492 (mobile).

Sincerely,

Sam Stamock Rs

Sam S. Hancock, Ph.D. Radiation Safety Officer

Enclosures:

- 1. Decommissioning Report and Closeout Survey
- 2. Diagrams of "Brachytherapy Storage"
- 3. Historical Review of Licensed Material
- 4. Most recent leak test results (29 pages)

CC:

Sly Moore, Vice President and COO Judy Aslin, Executive Director, Cancer Center Nicholas Schupp, Director, Radiation Therapy

Attachment 1

Decommissioning Report and Closeout Survey Brachytherapy Storage Southeast Missouri Hospital

Date of survey

April 17, 2011

Person performing survey

Sam S. Hancock, Ph.D.

Location of area being decommissioned

See Attachment: Room labeled "Brachytherapy Storage."

Historical review of licensed material

Attached is a "Historical Review of Licensed Material" possessed in this area, including complete inventory of sealed sources.

Evaluation of removable contamination

Attached are recent leak test reports of all sources recently possessed in this area. No leaking sources have been in this area. No wipe tests were performed for this survey.

Exposure rate survey

Survey instrument:

Model: Accoma 4200 serial number 10138, with thin end window GM probe model 1053

Calibration date: August 3, 2011 by CNMC Co.

Range: X1 (0.2 mR/hr full scale)

Correction factor: 1.00 Background: 0.0 mR/hr

Action level: Above background

Location of measurements:

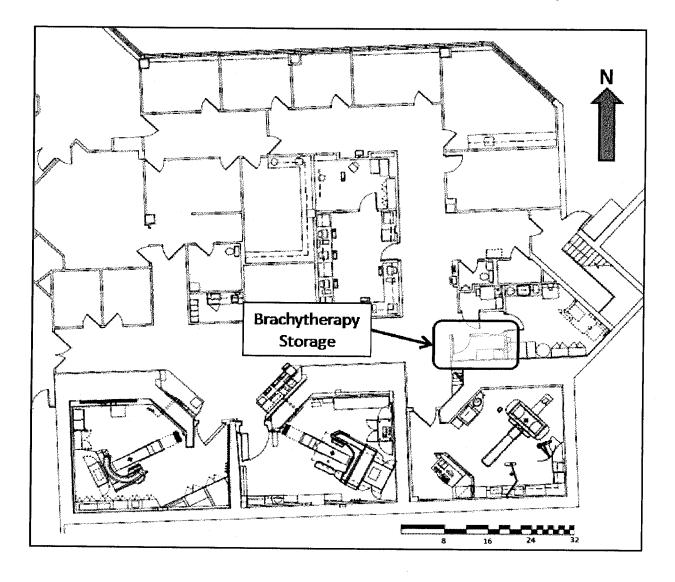
- Exposure rate measurements at a height of 6 inches were made in a raster pattern across the floor of the room, with a raster spacing of approximately 12 inches.
- Each of nine lead-filled storage-safe drawers.
- Interior of storage safe, drawers removed.
- Work surfaces behind L-block.

Maximum exposure rate: 0.0 mR/hr. No detectable radiation measured.

Sam S. Hancock, Ph.D.

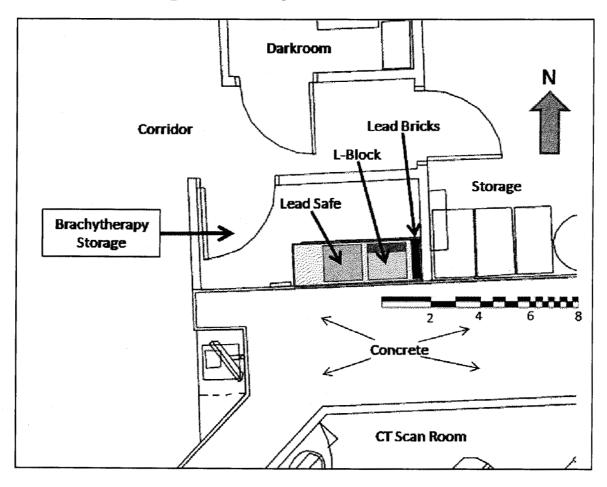
Sam SHamock Ris

Location of Brachytherapy Storage in Radiation Therapy Department at 1701 Lacey St.



Attachment 2b

Brachytherapy Storage at 1701 Lacey St.



Attachment 3

Historical Review of Licensed Material

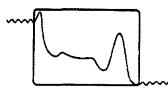
Southeast Missouri Hospital Brachytherapy Storage

The brachytherapy storage room at 1701 Lacey Street has been used for storage and handling of <u>only</u> sealed sources, including cesium-137 and strontium-90 for therapeutic use. This area has also been used for intermittent short-term storage of I-125 sealed sources that were used for permanent implants. Any unused I-125 sources were routinely transferred to decay-in-storage in the Nuclear Medicine Department hot lab. The permanent inventory of licensed material that has been maintained at this location is listed below. No source leaks have been discovered for any sources possessed in this location.

Cesium-137 Inventory				
Activity (mCi)				
3M Model No.	Serial Number	on 4/17/2011		
6501	1985	10.7		
6501	1986	10.7		
6501	2001	10.6		
6501	2035	10.5		
6501	5060	14.5		
6501	5088	14.4		
6501	5091	14.4		
6501	5096	14.5		
6501	5120	14.4		
6501	5128	14.5		
6524	0086	27.9		
6524	0092	27.8		
6502	2982	19.6		
6502	3025	19.6		
6502	3656	21.3		
6502	3663	21.3		
6502	3670	21.3		
6503	0619	21.9		
6503	2521	29.6		
6503	2533	29.6		
6503	2525	29.6		
6503	2588	28.7		
6523	0123	20.4		
6523	0130	21.0		
6504	1496	42.7		
6504	1509	42.4		
6504	1543	42.5		
6504	1556	42.8		

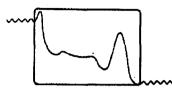
Strontium-90 Inventory	
New England Nuclear Model NB-1, SN 0307	
Activity = 54.8 mCi on 4/17/2011	





	F.O. BOX 2000/7 . HOUSTON, 1EAA	IS (1/201-00/1 , AREA CODE / 13-4/0-0020 , FAX 261-032-0929
SEA	LED SOURCE LEA	AK TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 1309
		ACOUNT #: 1731
RADIONULCIDE: SR-90		
ACTIVITY: 0.117 C	<u> </u>	SERIAL NO: NB-1 #0307
WIPE DATE: 1/6/2011		
EFFICENCY: _0.475		more in Nac 4 of 1 N
GROSS CPM: 43	BKG CPM: 21	NET CPM: 22
NET CPM EFF X 2.22x10^6 DPM/u CI	= MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY	WAS: <u>2.09E-05</u>	MICROCURIE
ASSAY NO.: 1/17/2011 27		E: 1/18/2011
ASSAYED BY:	<u> </u>	





SEAL	ED SOURCE LEAK TEST	CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34120
		ACOUNT #: 1731
RADIONULCIDE: CS-137	· .	
ACTIVITY: 0.0122 CI	SI	ERIAL N <u>O: 1986</u>
WIPE DATE:		
EFFICENCY: 0.95	·	
GROSS CPM: 33	BKG CPM: 21	NET CPM: 12
NET CPM EFF X 2.22x10^6 DPM/u CI =	MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY W	VAS: <u>5.69E-06</u>	MICROCURIE
ASSAY NO.: 1/17/2011 18	DATE: <u>1/18/2</u> 01	11
ASSAYED BY:	Bi-	



SEALED SOURCE	LEAK TEST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.	CUSTOMER #: 2267	
CAPE GIRARDEAU MO 63701	SOURCE #: 34121	
	ACOUNT #: 1731	
RADIONULCIDE: CS-137		
ACTIVITY: 0.0122 CI	SERIAL NO: 2001	
WIPE DATE:1/6/2011		
EFFICENCY: 0.95		
GROSS CPM: 31 BKG CPM	: 21 NET CPM: 10	
NET CPM EFF X 2.22x10^6 DPM/u Cl = MICROCURIE		
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY WAS: 4.74E-06	MICROCURIE	
ASSAY NO.: 1/17/2011 19	DATE: 1/18/2011	
ASSAYED BY:		



SEALI	ED SOURCE LEAK TEST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.	CUSTOMER #: 2267	
CAPE GIRARDEAU	SOURCE #: 34122 MO 63701	
	ACOUNT #: 1731	
RADIONULCIDE: CS-137		
ACTIVITY: 0.0467 CI	SERIAL NO: 1496	_
WIPE DATE: <u>1/6/2011</u>		
EFFICENCY: 0.95		
GROSS CPM: 23	BKG CPM: 21 NET CPM: 2	«Ma
NET CPM EFF X 2.22x10^6 DPM/u CI	MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY W	AS: 9.48E-07 MICROCURIE	
ASSAY NO.: 1/17/2011 25	DATE: 1/18/2011	
ASSAYED BY:	Bi-	

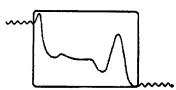


	P.O. BOX 266677 . HOUSTON, TEX	AS 77207-6877 . AREA CODE 713-478-6820 . FAX 281-532-0929
SEA	LED SOURCE LE	AK TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34123
		ACOUNT #: 1731
RADIONULCIDE: CS-137		 .
ACTIVITY: 0.0464	CI	SERIAL NO: 1509
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95		
GROSS CPM: 28	BKG CPM: 21	NET CPM: 7
NET CPM EFF X 2.22x10^6 DPM/u CI	= MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY	WAS: 3.32E-06	MICROCURIE
ASSAY NO.: 1/17/2011 26	DAT	E: <u>1/18/2011</u>
ASSAYED BY:	Sim	

To: 16305151078

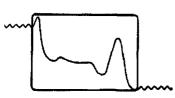
Page: 12/35

Date: 4/17/2011 1:19:23 PN



Monitoring Services

SEALE	D SOURCE LEAK TES	T CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: <u>34124</u>
		ACOUNT #: 1731
RADIONULCIDE: CS-137	·	
ACTIVITY: 0.0467 CI		SERIAL NO: 1543
WIPE DATE: 1/6/2011	•••	
EFFICENCY: _0.95		
GROSS CPM: 22	BKG CPM: 21	NET CPM: 1
NET CPM EFF X 2.22x10^6 DPM/u CI = M	IICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY WA	S: 4.74E-07	MICROCURIE
ASSAY NO.: 1/17/2011 30	DATE: 1/18/2	2011
ASSAYED BY:	Sim	



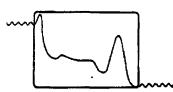
SEALE	D SOURCE LEAK TEST (CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.	С	USTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34125
		ACOUNT #: 1731
RADIONULCIDE: CS-137	· ·	
ACTIVITY: 0.0468 CI	SE	RIAL NO: 1556
WIPE DATE:		
EFFICENCY: 0.95		
GROSS CPM: 29	BKG CPM: 21	NET CPM: 8
NET CPM EFF X 2.22x10^6 DPM/u Cl = N	MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY WA	AS: <u>3.79E-06</u>	_MICROCURIE
ASSAY NO.: 1/17/2011 29	DATE: <u>1/18/2</u> 01 ²	1 <u>. </u>
ASSAYED BY:	Sim	



SEALI	ED SOURCE LEAK	TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34126
		ACOUNT #: 1731
RADIONULCIDE: CS-137	,	
ACTIVITY: 0.0234 CI		SERIAL NO: 123
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95	· · · · · · · · · · · · · · · · · · ·	-
GROSS CPM: 27	BKG CPM: <u>21</u>	NET CPM: 6
NET CPM = MICROCURIE		
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY WAS: 2.84E-06 MICROCURIE		
ASSAY NO.: 1/17/2011 21 DATE: 1/18/2011		
ASSAYED BY:	Frie	



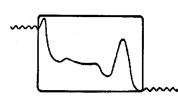
SEA	LED SOURCE LEA	K TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34127
		ACOUNT #: 1731
RADIONULCIDE: CS-137		-
ACTIVITY: 0.024 (<u> </u>	SERIAL NO: 130
WIPE DATE:1/6/2011		
EFFICENCY: 0.95		
GROSS CPM: 26	BKG CPM: 21	NET CPM: 5
NET CPM EFF X 2.22x10^6 DPM/u CI	= MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY	WAS: <u>2.37E-06</u>	MICROCURIE
ASSAY NO.: 1/17/2011 33	DATE	:: <u>1/18/2011</u>
ASSAYED BY:	12	



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SE	ALED SOURCE	LEAK TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34128
		ACOUNT #: 1731
RADIONULCIDE: CS-137		
ACTIVITY: 0.033	CI	SERIAL NO: 2533
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95		 -
GROSS CPM: <u>36</u>	BKG CPM:	21 NET CPM: 15
NET CPM EFF X 2.22x10^6 DPM/u CI	= MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVIT	Y WAS: <u>7.11</u> E-06	MICROCURIE
ASSAY NO.: 1/17/2011 34		DATE: 1/18/2011
ASSAYED BY:	la prima	



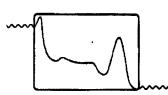
	LED SOURCE LEAK	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 22 <u>67</u>
CAPE GIRARDEAU	МО	SOURCE #: 34129
CAFE GIVARDEAU	63701	
		ACOUNT #: 1731
RADIONULCIDE: CS-137		
ACTIVITY: 0.0165 C	<u> </u>	SERIAL NO: 5120
WIPE DATE:		
EFFICENCY: 0.95	-	
GROSS CPM: 35	BKG CPM: 21	NET CPM: 14
NET CPM EFF X 2.22x10^6 DPM/u CI	= MICROCURIE	
RADIOACTIVE MATERIAL LIC	CENSE AND THE APPRO JLATIONS DEFINE A LEA VIPE TEST HAS REMOVE	KING SOURCE AS ONE FROM
THE REMOVABLE ACTIVITY	WAS: <u>6.64E-06</u>	MICROCURIE
ASSAY NO.: 1/17/2011 43	DATE:	1/18/2011
ASSAY NO.: 1/17/2011 43		1/18/2011



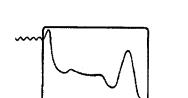
SEALE	ED SOURCE LEAK	TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34130
•		ACOUNT #: 1 <u>731</u>
RADIONULCIDE: CS-137		
ACTIVITY: 0.0166 CI		SERIAL NO: 5128
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95		_
GROSS CPM: 27	BKG CPM: 21	NET CPM: 6
NET CPM EFF X 2.22x10^6 DPM/u CI	MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY WA	AS: <u>2.84E-06</u>	MICROCURIE
ASSAY NO.: 1/17/2011 44	DATE:	1/18/2011
ASSAYED BY:	Bin	



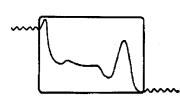
SEALE	ED SOURCE LEAK TE	EST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267	
CAPE GIRARDEAU	M O 63701	SOURCE #: 34131	
RADIONULCIDE: CS-137		ACOUNT #: 1731	
ACTIVITY: 0.0165 CI		SERIAL NO: 5088	
WIPE DATE: <u>1/6/2011</u>			
EFFICENCY: 0.95			
GROSS CPM: 32	BKG CPM: 21	NET CPM: 11	
NET CPM EFF X 2.22x10^6 DPM/u CI = MICROCURIE			
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY WA	AS: <u>5.22E-06</u>	MICROCURIE	
ASSAY NO.: 1/17/2011 24	DATE: 1/1	8/2011	
ASSAYED BY:	Sin		



SEAI	LED SOURCE	LEAK TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	M O 63701	SOURCE #: 34132
		ACOUNT #: 1731
RADIONULCIDE: CS-137		·
ACTIVITY: 0.0166 C	<u> </u>	SERIAL NO: 5060
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95		
GROSS CPM: 23	BKG CPM:	M: 21 NET CPM: 2
NET CPM EFF X 2.22x10^6 DPM/u Cl	= MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY	WAS: <u>9.48E-07</u>	MICROCURIE
ASSAY NO.: 1/17/2011 23	<i>P</i>	DATE: 1/18/2011
ASSAYED BY:	Bin	



SEA	ALED SOURCE	LEAK TEST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL 1701 LACEY ST.		CUSTOMER #: 2267	
CAPE GIRARDEAU	MO 63701	SOURCE #: 34133	
RADIONULCIDE: CS-137		ACOUNT #: 1731	
ACTIVITY: 0.0119	CI	SERIAL NO: 2035	
WIPE DATE: 1/6/2011			
EFFICENCY: 0.95			
GROSS CPM: 36	BKG CPM:	21 NET CPM: 15	
NET CPM EFF X 2.22x10^6 DPM/u CI	= MICROCURIE		
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY	Y WAS: 7.11E-06	MICROCURIE	
ASSAY NO.: 1/17/2011 22		DATE: <u>1/18/2011</u>	
ASSAYED BY:	by Krim		

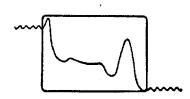


SEAL	.ED SOURCE LE	EAK TEST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267	
CAPE GIRARDEAU	MO 63701	SOURCE #: 34134	
		ACOUNT #: <u>17</u> 3 <u>1</u>	
RADIONULCIDE:CS-137		_	
ACTIVITY: 0.0338 C	<u>L</u>	SERIAL NO: 2521	
WIPE DATE:			
EFFICENCY: 0.95			
GROSS CPM: 35	BKG CPM: <u>21</u>	NET CPM: 14	
NET CPM EFF X 2.22x10^6 DPM/u CI = MICROCURIE			
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY	WAS: <u>6.64E</u> - <u>06</u>	MICROCURIE	
ASSAY NO.: 1/17/2011 35		ATE: 1/18/2011	
ASSAYED BY:	min		

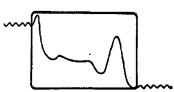


SEALED SOURCE LEAK TEST CERTIFICATE			
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267	
	MO 63701	SOURCE #: 34135	
	00701	ACOUNT #: 1731	
RADIONULCIDE: CS-137			
ACTIVITY: 0.0339 CI		SERIAL NO: 2525	
WIPE DATE: <u>1/6/2</u> 011			
EFFICENCY: 0.95			
GROSS CPM: 28	BKG CPM: 21	NET CPM: 7	
NET CPM EFF X 2.22x10^6 DPM/u CI = M	ICROCURIE		
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY WA	S: <u>3.32E-</u> 06	MICROCURIE	
ASSAY NO.: 1/17/2011 38	DATE: 1/18/	2011	
ASSAYED BY:	5-		





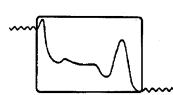
SEALED SOURCE LEAK TEST CERTIFICATE			
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267	
CAPE GIRARDEAU	MO 63701	SOURCE #: 34136	
		ACOUNT #: 1731	
RADIONULCIDE: CS-137			
ACTIVITY: 0.0328 CI		SERIAL NO: 2588	
WIPE DATE:			
EFFICENCY: 0.95			
GROSS CPM: 28	BKG CPM: 21	NET CPM: 7	
NET CPM EFF X 2.22x10^6 DPM/u CI = M	IICROCURIE		
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY WA	S: 3.32E-06	MICROCURIE	
ASSAY NO.: 1/17/2011 42	DATE: 1/18	/2011	
ASSAYED BY:	5		



SEAL	ED SOURCE L	EAK TEST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267	
CAPE GIRARDEAU	MO 63701	SOURCE #: 34137	
		ACOUNT #: 1731	
RADIONULCIDE: CS-137			
ACTIVITY: 0.0251 CI		SERIAL NO: 619	
WIPE DATE:		_	
EFFICENCY: 0.95			
GROSS CPM: 22	BKG CPM: 2	NET CPM: 1	
NET CPM EFF X 2.22x10^6 DPM/u CI = MICROCURIE			
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY WAS: 4.74E-07 MICROCURIE			
ASSAY NO.: 1/17/2011 36		DATE: 1/18/2011	
ASSAYED BY:	Bin	-	



P.O. BOX 266677 . HOUSTON, TEXAS 77207-6677 . AREA CODE 713-478-6820 . FAX 281-532-0929					
SEALE	SEALED SOURCE LEAK TEST CERTIFICATE				
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267			
CAPE GIRARDEAU	MO 63701	SOURCE #: 34138			
		ACOUNT #: 1731			
RADIONULCIDE: CS-137	·				
ACTIVITY: 0.0244 CI		SERIAL NO: 3670			
WIPE DATE: 1/6/2011					
EFFICENCY: _0.95					
GROSS CPM: 34	BKG CPM: 21	NET CPM: <u>13</u>			
NET CPM EFF X 2.22x10 ⁶ DPM/u CI = N	MICROCURIE	•			
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.					
THE REMOVABLE ACTIVITY WA	AS: <u>6.16E-06</u>	MICROCURIE			
ASSAY NO.: 1/17/2011 37	_	2011			



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ee.	ALED SOUDCE	LEAK TEST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL.		LEAR TEST CERTIFICATE	
1701 LACEY ST.		CUSTOMER #: 2267	
CAPE GIRARDEAU	MO 63701	SOURCE #: 34139	
		ACOUNT #: 1731	
RADIONULCIDE: CS-137			
ACTIVITY: 0.0244	CI	SERIAL NO: 3656	
WIPE DATE:1/6/2011			
EFFICENCY: 0.95			
GROSS CPM: 28	BKG CPM	21 NET CPM: 7	
NET CPM EFF X 2.22x10^6 DPM/u CI = MICROCURIE			
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY	Y WAS: 3.32E-06	MICROCURIE	
ASSAY NO.: 1/17/2011 20		DATE: 1/18/2011	
ASSAYED BY:	ho fri	· -	

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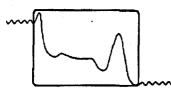


SEALE	D SOURCE LEAK	TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: <u>34140</u>
		ACOUNT #: 1731
RADIONULCIDE: CS-137		
ACTIVITY: 0.0243 CI		SERIAL NO: 3663
WIPE DATE:1/6/2011	· · · · · · · · · · · · · · · · · · ·	
EFFICENCY: 0.95		
GROSS CPM: 41	BKG CPM: 21	NET CPM: 20
NET CPM EFF X 2.22x10^6 DPM/u CI = N	/ICROCURIE	
THE ABOVE SOURCE WIPE TE RADIOACTIVE MATERIAL LICE! REQUIREMENTS. THE REGULA WHICH AN APPROPRIATE WIP MICROCURIE OR MORE OF AC	NSE AND THE APPRO TIONS DEFINE A LEA E TEST HAS REMOVE	KING SOURCE AS ONE FROM
THE REMOVABLE ACTIVITY WA	AS: <u>9</u> .4 <u>8E-06</u>	MICROCURIE
ASSAY NO.: 1/17/2011 28	DATE:	1/18/2011
ASSAYED BY:	Sim	

To: 16305151078

Page: 29/35

Date: 4/17/2011 1:19:24 PN

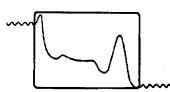


Monitoring Services

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	•	
SE	ALED SOURCE LE	AK TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL 1701 LACEY ST.	•	CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34141
		ACOUNT #: 1731
RADIONULCIDE: CS-137		
ACTIVITY: 0.0226	CI _	SERIAL NO: 2982
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95		
GROSS CPM: 22	BKG CPM: 21	NET CPM: 1
NET CPM EFF X 2.22x10^6 DPM/u CI	- = MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE.OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVIT	Y WAS: 4,74E-07	MICROCURIE
ASSAY NO.: 1/17/2011 40	DA	TE: <u>1/</u> 1 <u>8/2011</u>
ASSAYED BY:	la Brim	

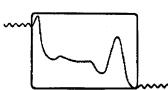
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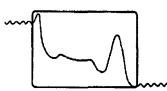
SEALE	SOURCE LEAK TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.	CUSTOMER #: 2267
	MO 63701
	ACOUNT #: <u>17</u> 31
RADIONULCIDE: CS-137	
ACTIVITY: 0.0225 CI	SERIAL NO: 3025
WIPE DATE: 1/6/2011	
EFFICENCY: 0.95	
GROSS CPM: 30	BKG CPM: 21 NET CPM: 9
NET CPM EFF X 2.22x10^6 DPM/u CI = M	CROCURIE
RADIOACTIVE MATERIAL LICEN REQUIREMENTS. THE REGULAT	T HAS BEEN ASSAYED IN ACCORDANCE WITH OUR SE AND THE APPROPRIATE REGULATORY TIONS DEFINE A LEAKING SOURCE AS ONE FROM TEST HAS REMOVED 0.005 (5.0X10E-3) IVITY.
THE REMOVABLE ACTIVITY WA	S: 4.27E-06 MICROCURIE
ASSAY NO.: 1/17/2011 39	DATE: 1/18/2011
ASSAYED BY:	Simon of the second of the sec



SEALE	D SOURCE LEAK TEST C	ERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.	CL	STOMER #: 2267	
CAPE GIRARDEAU	MO 63701	OURCE #: 3 <u>4143</u>	
		ACOUNT #: 1731	
RADIONULCIDE: CS-137	· ·		
ACTIVITY: 0.0319 CI	SEF	RIAL N <u>O: 86</u>	
WIPE DATE: <u>1/6/2011</u>			
EFFICENCY: 0.95	·		
GROSS CPM: 29	BKG CPM: 21	NET CPM: _8	
NET CPM EFF X 2.22x10^6 DPM/u Cl = M	IICROCURIE		
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY WA	S: 3.79E-06	_MICROCURIE	
ASSAY NO.: 1/17/2011 41	DATE: <u>1/18/2011</u>		
ASSAYED BY:	Si-		



SEAL	ED SOURCE LEAK	(TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34144
		ACOUNT #: 1731
RADIONULCIDE: CS-137		
ACTIVITY: 0.0318 CI		SERIAL NO: 92
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95		
GROSS CPM: 35	BKG CPM: 21	NET CPM: 14
NET CPM EFF X 2.22x10^6 DPM/u CI	MICROCURIE	
RADIOACTIVE MATERIAL LICI	ENSE AND THE APPRO ATIONS DEFINE A LE PE TEST HAS REMOV	AKING SOURCE AS ONE FROM
THE REMOVABLE ACTIVITY V	VAS: 6.64E-06	MICROCURIE
ASSAY NO.: 1/17/2011 45 ASSAYED BY:		1/18/2011

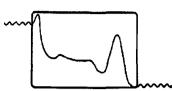


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SEALEI	D SOURCE LEAK	TEST CERTIFICATE
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34145
	00/01	ACOUNT #: 1 <u>731</u>
RADIONULCIDE: CS-137		
ACTIVITY: 0.0167 CI		SERIAL NO: 5096
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95	<u> </u>	
GROSS CPM: 31	BKG CPM: 21	NET CPM: 10
NET CPM EFF X 2.22x10^6 DPM/u CI = M	ICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY WA	S: 4.74E-06	MICROCURIE
ASSAY NO.: 1/17/2011 32	DATE:	1/18/2011
ASSAYED BY:	5.	



Monitoring Services

0541		
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.	ED SOURCE	CUSTOMER #: 2267
CAPE GIRARDEAU	MO 63701	SOURCE #: 34146
RADIONULCIDE: CS-137		ACOUNT #: 1731
ACTIVITY: 0.0165 CI		SERIAL NO: 5091
WIPE DATE: 1/6/2011		
EFFICENCY: 0.95		
GROSS CPM: 36	BKG CPM:	21 NET CPM: 15
NET CPM EFF X 2.22x10^6 DPM/u CI =	MICROCURIE	
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.		
THE REMOVABLE ACTIVITY W	/AS: <u>7.11E-06</u>	MICROCURIE
ASSAY NO.: 1/17/2011 31		DATE: 1/18/2011
ASSAYED BY:	Bi	



SEAL	ED SOURCE LEAK	TEST CERTIFICATE	
ANDREW ELIZALDE S.E. MISSOURI HOSPITAL. 1701 LACEY ST.		CUSTOMER #: 2267	
CAPE GIRARDEAU	MO 63701	SOURCE #: 34147	
		ACOUNT #: 1731	
RADIONULCIDE: CS-137			
ACTIVITY: 0.0123 CI	· 	SERIAL NO: 1985	
WIPE DATE: 1/6/2011			
EFFICENCY: 0.95			
GROSS CPM: 29	BKG CPM: 21	NET CPM: 8	
NET CPM EFF X 2.22x10^6 DPM/u CI	MICROCURIE		
THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 (5.0X10E-3) MICROCURIE OR MORE OF ACTIVITY.			
THE REMOVABLE ACTIVITY V	VAS: <u>3.79E-06</u>	MICROCURIE	
ASSAY NO.: 1/17/2011 17	DATE: <u>′</u>	1/18/2011	
ASSAYED BY:			



Subject:

Amendment application

Message:



789 S Mount Auburn Road

Cape Girardeau, MO 63703

Radiation Oncology 573-519-4700 • Infusion Services 573-519-4810 • Medical Oncology 573-519-4830 SEHealth.org

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