St. Louis Cancer and Breast Institute (Ballas Cancer Center) Suite 100 1000 Des Peres Rd. Des Peres, MO 63131

May 2, 2007

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

Phone: (630) 829-9500 Fax: (630) 515-1078

RE: Application for Materials License Amendment to USNRC license # 24-32151-01.

We have ceased all licensed operations at Suite 70, 450 N. New Ballas Rd., St. Louis, MO 63141 and have changed our location to Suite 100, 1000 Des Peres Rd., Des Peres, MO 63131 consistent with our most recent license amendment adding the Des Peres location, which was approved on March 12, 2007.

Please find enclosed NRC Form 313 to remove the Ballas Rd location from our NRC license. The two most recent leak test results and a final survey and wipe test report are also enclosed demonstrating the lack of contamination at the Ballas site. All licensed material was relocated to the Des Peres clinic before performing the final wipe tests and survey.

Please expedite this request if possible and direct any questions to Todd E. Grigereit, Ph.D. at (314) 471-0254 or via email at tgrigereit@stlcancer.com.

Sincerely,

Todd E. Grigereit, Ph.D. Radiation Safety Officer

25 Sugar

Diane M. Radford, M.D. Executive Manager

NRC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION

(10-2005) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2008

APPROVED BY OMS: NO. 3150-0120

EXPIRES: 10/31/2008

Estimated burden per response to comply with this mandatory collection request: 4.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments reparding burden estimate to the Records and FOIAPrivacy Sennces Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nc.gov. and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. It a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection. collection.

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA.

KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA
JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVAMA, PUERTO RICO, RHODE
ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR
WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALL ENDALE ROAD KING OF PRUSSIA, PA 19406-1415

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352

NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-4005

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED

MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDIC	TIONS.					
THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)					
A. NEW LICENSE B AMENDMENT TO LICENSE NUMBER 24-32151-Q1	Ballas Cancer Center, dba: St. Louis Cancer & Breast Institute Suite 100					
C. RENEWAL OF LICENSE NUMBER	1000 Des Peres Road Des Peres. MO 63131					
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION					
Ballas Cancer Center, dba: St. Louis Cancer & Breast Institute	Todd E. Grigereit, Ph.D.					
Suite 100	TELEPHONE NUMBER					
1000 Des Peres Road Des Peres, MO 63131	(314) 471-0250					
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMA	ATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE					
 RADIOACTIVE MATERIAL Element and mass number; b. chemical and/or physical form; and c. maiximum: amount which will be possessed at any one time. 	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED					
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.					
9. FACILITIES AND EQUIPMENT	10. RADIATION SAFETY PROGRAM.					
	12. LICENSE FEES. (See 10 CFR 170 and Section 170.31)					
11. WASTE MANAGEMENT	FEE CATEGORY AMOUNT S 0.00					
 CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THE UPON THE APPLICANT. 	AT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING					
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34 CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.	THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN 1, 35 , 36, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND					
WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A.C ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN	RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO 175 JURIS DICTION.					
CERTIFYING OFFICER TYPED/PRINTED NAME AND TITLE	SIGNATURE DATE					
Diane M. Radford, M.D., Executive Manager	·					
FOR NRC	USE ONLY					
TYPE OF FEE FEE LOG FEE CATEGORY AMOUNT RECEIVED CHEC	CK NUMBER COMMENTS					
s						
APPROVED BY DATE						
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License Number 24-32151-01

Final Radiation Survey and Contamination wipe-test

Date:

April 5, 2007

Location:

450 N. New Ballas Rd, Suite 70, St. Louis, MO 63141

Performed by:

Todd E. Grigereit, Ph.D., Medical Physicist, Radiation Safety Officer

Equipment

Survey Meter (Ion Chamber):

Victoreen 450P, SN 3903, last calibration 10/26/06.

Background radiation level:

20 microR/hr

Survey Meter constancy check:

10 microCurie Cs-137 Checksource

Wipe-test spectrometer:

Atomlab 930, SN 1651016

Startup calibration source:

Cs-137 10 microCurie source

Wipe Tests performed in radiopharmaceutical "hot lab", the only use location of unsealed source material.

Location	Outcome
1. Right half of plastic cover on counter	Passed
2. Left half of plastic cover on counter	Passed
3. Base of superficial machine	Passed
4. Locked cabinet second shelf	Passed
5. Top of superficial machine	Passed
6. Left half of counter top	Passed
7. Right half of counter top	Passed
8. Locked cabinet bottom shelf	Passed
9. Locked cabinet under the sink	Passed

	DATE: Apr 09,	2007	TIME:	09:32
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AREA # 1 Description: B	elles W	ipe Test	Hotla	6	
Unrestricted, RSO trigge	er level at	100 % of 1	Federal gu	idelines.	
lsotope: Cs-137 Trigger in dpm: 200 Det. probability 0.80	Sm-153 200 0.99	Tc-99m 2000 0.99	1-131 200 0.94	Ba-133 200 0.97	1r-192 200 0.99
Wipe Description dpm	dpm	dpm	dpm	<u>dpm</u>	drm
1) R counter cover -71	12	4	-24	-43	-16
21 Lounter cover 86	-10	4	4	-19	1
pase 31 Superficial marking 149	8	o	44	22	18
4) 2 shelf upper cab. 149	-1	0	31	14	21
Tap 51 Superficiel machine -8	-5	C)	17	30	14
6) <u>Lumber</u> 55	-10	9	-37	-51	1
7) R counter -102	-1O	4	17	39	4
B) istalfupercals. 86	17	0	4	14	28
9) Undorsink culoin 149	17	0	44	22	-27
Technologist: 45 Comments:					
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WIFE REPORT: EFFICIENCY AND LLD

DATE: Apr 09, 2007

TIME: 09:08

DETECTOR: WELL GEOMETRIC EFFICIENCY: 98 %

ISOTOPE SETUF:

ISOTOPE	GAIN	LEFT ROI	RIGHT ROI	DETECTOR
		KEV	KEV	EFFICIENCY *
Tc-99m	12	119	162	82
1-131	4	309	420	30
Ba-133	4	256	410	50
Cs-137	2	561	761	13
lr-192	2	250	703	120
Sm-153	12	40	110	93

WIFE COUNT TIME: RESTRICTED AREA AND SEALED SOURCE: 15 Seconds

UNRESTRICTED AREA WIFE COUNT TIME:

15 Seconds 15 Seconds

WIPE RECOUNT TIME: RESTRICTED AREA AND SEALED SOURCE:

UNRESTRICTED AREA WIPE RECOUNT TIME: 15 Seconds

LAB BACKGROUND COUNT TIME:

60 Seconds

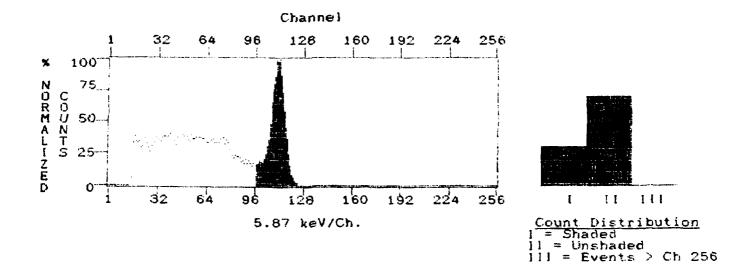
BACKGROUND RESULTS:

BKG.	BKG. RATE	BKG. DPM	LOWER LIMIT OF	DETECTION DPM
COUNTS	CPM	Equiv.	Restricted	Unrestricted
0	o	o	19	19
19	19	64	97	97
33	33	67	70	70
29	29	227	255	255
99	99	84	43	43
37	37	40	39	39
	COUNTS 0 19 33 29 99	COUNTS CPM 0 0 19 19 33 33 29 29 99 99	COUNTS CPM Equiv. 0 0 0 19 19 64 33 33 67 29 29 227 99 99 84	COUNTS CPM Equiv. Restricted 0 0 0 19 19 19 64 97 33 33 67 70 29 29 227 255 99 99 84 43

Spectrum Report

DATE: Apr 09, 2007

TIME: 09:03



The above spectrum was collected under the following conditions:

Mode: Calibration - after calibration save

ID: N/A

Isotope: Cs-137
Detector: Well

Gain: 2

Count type: Auto count time using the maximum

Spectrum Analysis:

Peak: Energy = 661 keV; Count = 2016; Rate = 2016 cpm

ROI 1: Energy = 562 keV to 761 keV; Count = 21246; Rate = 21248 cpm

Total: Count = 76094; Rate = 76094 cpm

Count Time: 60 seconds.

Events above channel 256: 146 counts

CALIBRATION:

Isotope	Peak keV	normaliza Well	tion factors Probe	Gain	LLD	ULD
I-123 I-125 I-131 Co-57 Cr-51 Tc-99m Cs-137 OTHER	159 27 364 122 323 141 662	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A 0.9929 N/A N/A	8 4 12 4 12 2	135 23 309 104 272 119 562 117	183 40 419 156 368 162 761

^{*} indicates a change from the factory defaults.

ERRORS:

None.

DATE: Apr 12, 2007		TI	ME: 15:53			
AREA # 1 Descripti	on:	Leus'	Testing			
Unrestricted, RS	O trigger	level at	100 % of I	Federal gu	idelines.	
lsotope: Trigger in dpm: Det. probability	Cs-137 200 0.79	Sm-153 200 0.99	Tc-99m 2000 0.99	1-131 200 0.94	Ba-133 200 0.98	1r-192 200 0.99
Wipe Description	dom	dpm	dpm	dpm	dpm	dom
11 CS VICA	-197	11	-1	61	51	16
21 (5 bigrod	86	20	-1	47	34	6
31 (5 small cod	-103	33	3	7	26	-14
41 (5 button	-8	-20	3	-7	-23	-18
51 Ba Vial	-8	-28	-1	7	18	30
Technologist:	15 1/2	. 1				
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Comments:						
						
						
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WIPE REPORT: EFFICIENCY AND LLD

DATE: Apr 12, 2007

DETECTOR: WELL GEOMETRIC EFFICIENCY: 98 %

ISOTOPE SETUP:

1 SOTOPE	GAIN	LEFT ROI	RIGHT ROI	DETECTOR
		KEV	KEV	EFFICIENCY %
Tc-99m	12	119	162	82
1-131	4	309	420	30
Ba-133	4	256	410	50
Cs-137	2	561	761	13
lr-192	2	250	703	120
Sm-153	12	40	110	93

WIPE COUNT TIME: RESTRICTED AREA AND SEALED SOURCE: 15 Seconds

UNRESTRICTED AREA WIPE COUNT TIME:

15 Seconds

TIME: 15:46

WIPE RECOUNT TIME: RESTRICTED AREA AND SEALED SOURCE:

15 Seconds

UNRESTRICTED AREA WIPE RECOUNT TIME: 15 Seconds

LAB BACKGROUND COUNT TIME:

60 Seconds

BACKGROUND RESULTS:

ISOTOPE	BKG.	BKG. RATE	BKG. DPM	LOWER LIMIT OF	DETECTION DPM
	COUNTS	CPM	Equiv.	Restricted	Unrestricted
Tc-99m	1	1	1	21	21
1-131	18	18	61	97	97
Ba-133	27	27	55	66	66
Cs-137	33	33	259	265	265
lr-192	97	97	82	43	43
Sm-153	38	38	41	39	39

DATE: Sep 18, 200					.11	ME: 12:4
AREA # 1 Descript	ion:	Leah	-testi	ra		
Unrestricted, R	SO trigge	r level at	100 % of	Federal gu	idelines.	
lsotope: Trigger in dpm: Det. probabilit	Cs-137 200 y 0.77	Sm-153 200 0.99	Tc-99m 2000 0.99	1-131 200 0.93	Ba-133 200 0.97	lr-19: 20: 0.99
Vipe Description	dpm	dpm	dpm	dpm	dpm	dpm
1) Small G rad	-181	27	0	24	-11	-16
2) Cs button	-244	14	0	-17	-19	-19
3) leuze Carod	-118	5	O	-30	-11	-9
4) Ba viel	-55	18	o	24	55	15
						
						
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DATE: Sep 13, 2006				711	ME: 12:48
AREA # 1 Description:	Lesht	eif			
Unrestricted, RSD tr	igger level at	100 % of	Federal gu	idelines.	
lsotope: Cs-i	37 Sm-153	Tc-99m 2000 0.99	1-131 200 0.93	Ba-133 200 0.97	lr-192 200 0.99
Wipe Description dp	om dom	dpm	dpm	dpm	dom
1) Cavial 1	0 14	0	-17	-19	-6
Technologist:					
2 D					
Comments:		 			
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