

HENRY FORD HEALTH CENTER - BROWNSTOWN A Henry Ford Wyandotte Hospital Facility

Downriver Cardiology

Henry Ford Health Center 23050 West Road, Suite 120 Brownstown, MI 48183 (734) 671-1510 Phone (734) 671-1570 Fax

Joseph C. Rogers, D.O.

Felix J. Rogers, D.O.

Kevin J. Berlin, D.O.

Sherrie Charron, PA-C

Ed O'Connell, PA-C

Courtney Gearhan, PA-C

September 18, 2012

United States Nuclear Regulatory Commission Region III Materials Licensing 2443 Warrenville Road, Suite 210 Lisle, II 60532-4352

RE: Amendment to NRC License No 21-26330-01 Downriver Cardiology Consultants, P.C.

Dear Sir/Madam:

Item #1

Please remove the following location of use from our license:

Downriver Cardiology Consultants, P.C. 5400 Fort st Suite 200 Trenton, Michigan

A close-out survey was preformed on August 30, 2012 of the above address and is enclosed for your review.

The last date of receipt and use of radioactive material at this site was August 22, 2012. A current copy of the leak test results for the sealed sources used at our facility is enclosed for your review. Sealed sources and radioactive waste were removed from our department for transfer to the 23050 West Rd Suite 120 Brownstown, Michigan location

Listed on our NRC License prior to performing the close-out survey.

Thank you for your cooperation. If you have any questions or require additional information, please contact our physics consultant, Sharon Updike at 734-662-3197.

Respectfully Yours,

Manchester

Manchester

Pamela Manchester

Interim Practice Manager

Downriver Cardiology Consultants, P.C.

RECEIVED SEP 19 2002



Close-out Survey

Date performed:August 30, 2012
Performed by: Sharon Updike, MHP
Comments: Sealed sources and radioactive waste were removed from our department for transfer to the the 23050 West Road, Suite 120, Brownstown, Michigan location listed on our NRC license prior to performing the close-out survey.
Instruments
Wipe tests analyzed with a <u>Capintec Captus 3000</u> Well Counter s/n :900271
Radionuclide: <u>Cobalt-57</u> MDA for C0-57: <u>47 dpm</u>
Date Efficiency performed: 03/30/11 Conversion factor: 2.5 dpm / cpm
Area survey performed with the following survey meter:
Manufacturer: Ludlum Type: GM Model Number: 14C Serial Number: 86223 Probe Model: 44-7 Annual Calibration Due:

Radionuclides Used

Unsealed

Tc99m

Sealed

Co-57, Ba-133, Cs-137

Last date of byproduct radiopharmaceutical use: 08/22/2012

Visual Check: The area was checked to ensure that all sealed sources and radioactive waste had been removed. No evidence of radioactive material was noted.

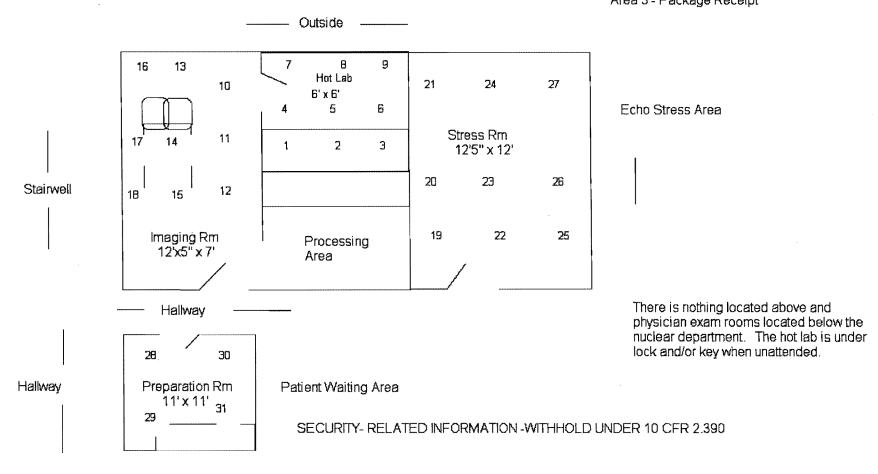
Sealed Source Leak Testing: No history of leaks from Sealed Sources.
Radiation Level Survey: No area within the department demonstrated radiation levels in excess of0.02_mR/hr.
Removable Contamination: No area within the department demonstrated removable contamination in excess of0 dpm's.
Hot Lab, Stress, Imaging and Preparation Areas See Diagram Attachment
Conclusion: No radioactive materials remain in this area. No removable contamination is present.

sarkarclose

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1	A	1		<u> </u>	L. L.
1	Downriver				
2	Cardiology, P.C.		·		
1	License # 21-	***************************************			
3	26330-01				
		•			
	CLOSEOUT				
	SURVEY				
	RESULTS				
5					
6		Date:	8/30/12	Performed By:	Sharon Updike, MHP
7					WILLIAM TO THE RESERVE THE RES
8					
9 10					***************************************
11			Bkg. 604.2 cpm		Bkg. 0.02 mR/hr
12		AREA	cpm	net dpm	mR/hr
13	1	Hot Lab	571.00	0 dpm	0.02
14	2	Hot Lab	571.00	0 dpm	0.02
15	3	Hot Lab	571.00	0 dpm	0.02
16	4	Hot Lab	540.00	0 dpm	0.02
17	5	Hot Lab	540.00	0 dpm	0.02
18	6	Hot Lab	540.00	0 dpm	0.02
19	7	Hot Lab	584.00	0 dpm	0.02
20	8	Hot Lab	584.00	0 dpm	0.02
21	9	Hot Lab	584.00	0 dpm	0.02
22	10	Imaging Area	541.00	0 dpm	0.02
23	11	Imaging Area	541.00	0 dpm	0.02
24	12	Imaging Area	541.00	0 dpm	0.02
25	13	Imaging Area	510.00	0 dpm	0.02
26	14	Imaging Area	510.00	0 dpm	0.02
27	15	Imaging Area	510.00	0 dpm	0.02
28	16	Imaging Area	602.00	0 dpm	0.02
29	17	Imaging Area	602.00	0 dpm	0.02
30	18	Imaging Area	602.00	0 dpm	0.02
31	19	Stress Room	583.00	0 dpm	0.02
32	20	Stress Room	583.00	0 dpm	0.02
33	21	Stress Room	583.00	0 dpm	0.02
34	22	Stress Room	579.00	0 dpm	0.02
35	23	Stress Room	579.00	0 dpm	0.02

24	Stress Room	579.00	0 dpm	0.02
25	Stress Room	574.00	0 dpm	0.02
26	Stress Room	574.00	0 dpm	0.02
27	Stress Room	574.00	0 dpm	0.02
28	Prep. Room	580.00	0 dpm	0.02
29	Prep. Room	580.00	0 dpm	0.02
30	Prep. Room	580.00	0 dpm	0.02
31	Prep. Room	580.00	0 dpm	0.02
32				
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		< 0.2 mR/hr		
	removable			
	contamination.			
	25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	25 Stress Room 26 Stress Room 27 Stress Room 28 Prep. Room 29 Prep. Room 30 Prep. Room 31 Prep. Room 32 33 34 35 36 37 38 39 40 41 42 ACTION LEVELS: 2000 dpm COMMENTS: No evidence of removable	Stress Room 574.00	Stress Room 574.00 0 dpm

Area 1 - RAM Waste Storage Area 2 - Dose Preparation Area 3 - Package Receipt



RADIOACTIVE MATERIAL SHIPPING PAPERS

FROM: Facility: Javanian Cardiology NRC License #: 21-26330-01 Address: 5400 Fort St Trante MI	TO: Facility:
Contact Person: <u>Pachel Makenne</u> EMERGENCY RESPONSE NUMBER <u>734</u>	

Quantity of Packages ___ Radioactive Material, Type A package(s), non special form, non fissile, or fissile excepted a Sealed Sources transferred to new location of USE as Limited Quantity up 2910 **Class 7 Radioactive Material** UN 2015 2910

Isotope(s)	Quantity (MBq)	Label (circle one)	*Contamination Wipe Results in dpm/300 cm2	*Exposure	TI (exp @ 1meter-only for Yellow II)
CS-137 vial CS-137 Red Ba-133 vial	133.8 vli 0.404 vli 48.85 vli	White I Yellow II	0	<u>6.2</u> mR/hr at surface <u>.02</u> mR/hr at 1 meter	X
Co-57 proof	7146	White Y Yelfow U	-0-	o. od_mR/hr at surface o. od_mR/hr at 1 meter	X
		White I or Yellow II		mR/hr at surface	
* .		White I or Yellow II		mR/hr at 1 meter	

^{*}Contamination (must be less than 6600 dpm in 300 cm² swipe)

Shipper's Certification:

8:30-10)

This is to certify that the above-named materials are properly classified, described. packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Technologist Signature

^{*}Survey Results (white I- <= 0.5 @ surface, bkg @ 1m.) (yellow II- 0.5- 50 @ surface, <1 @ 1m.)



Sealed Source Inventory

Licensee: Down River Cardiology

Date: 03/29/12

Performed by: Sharon Updike

Calibration

Nuclide	Type	Activity	Date	Location	M/N	S/N		
Cs-137	Vial	220 uCi	12/14/90	Hot Lab	NES-356	S356018003		
Current Ad	tivity: 134.49 u0	Çi .						
Ba-133	Vial	264 uCi	04/28/86	Hot Lab	MLD-01	225647C		
Current Ac	Current Activity: 49.519 uCi							
Cs-137	Disc	1 uCi	06/01/91	Meter		1444		
Current Activity: 0.618 uCi								
Cs-137	Rod	0.5 uCi	04/01/03	Hot Lab	· IPL	849-33-90		
Current Activity: 0.406 uCi								
Co-57	Flood	10 mCi	03/01/07	Hot Lab	NES8510	1228-191		
Current Ac	tivity: 0.087 m	Ci						

SEALED SOURCE AMBIENT EXPOSURE SURVEY

Meter:

Max Reading:

RADIATION SAFETY OFFICER: _

Sealed Source Inventory Page 1



Sealed Source Leak Test

Licensee: Down River Cardiology

Date: 03/29/12

Performed by: Sharon Updike

Calibration Calibration

		~ ~				
Nuclide	Type	Activity	Date	Location	M/N	S/N
Cs-137	Vial	220 uCi	12/14/90	Hot Lab	NES-356	S356018003
Current Ac	tivity: 134.	49uCi				
Ba-133	Vial	264 uCi	04/28/86	Hot Lab	MLD-01	225647C
Current Ac	tivity: 49.5	19uCi				

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed. Well Counter: Captus 3000

> Nuclide MDA Background 2.0 x 10 ⁻⁴ uCi Cs-137 145 counts/1 min 8.8 x 10⁻⁵ uCi Ba-133 204 counts/1 min 1.7 x 10⁻⁵ uCi Co-57 53 counts/1 min

RADIATION SAFETY OFFICER:



September 14, 2012

Pam Manchester Business Office Manager **Down River Cardiology** 5400 Fort Street, Suite 200 Trenton, MI 48183

Dear Ms. Manchester:

Please find the enclosed information required to amend your current NRC license. The following steps need to be taken for completion.

NRC License Amendment

- 1. Review carefully and be sure all information is correct. Retype cover letter onto **Facility** letterhead.
- Executive management (VP or higher) must sign the cover letter to the NRC. Please type their name below the signature.
- 3. Make three (3) copies of the cover letter, close-out survey and diagram, and most recent sealed source leak test.
- 4. Mail two (2) of the signed copies to the following address: Fed-Ex or UPS mail is advised. Make sure you include the Close-out Survey with diagram and Sealed Source Leak Test.

UNITED STATES NUCLEAR REGULATORY COMMISSION Region III, Office of Materials Licensing 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

6. Keep the original for your files.

STANDARD OVERNIGHT 60532 6147 09.19 ORD **493 ** 495 FecEx. US Airbill 58 8738 6434 6147 From This portion can be removed for Recipient's recur Date Policy Tracking Number Recipient's Copy 873864346147 4a Express Package Service Sender's DR JOSEPH ROGERS FedEx Priority Overnight Packages up to 150 lbs. FedEx Standard Over Phone 734 675-2220 COMPANY DOWNRIVER CARDIOLOGY CONSULTS FedEx Express Saver 1,800,463,3339 Insert airbill HHO Packages over 150 lbs. Brownsteun here ₩ FedEx 2Day Freigh ZIP 48183-2 Your Internal Billing Reference FedEx Box Recipient Pedical Physics Cortailtant, Inc. 6 Special Handling and Delivery Signature Options ted States Nuclear Regulatory Commission SATURDAY Delivery Region III, Office of Materials Thersing We cannot garger to P.D. Sous o P.D. ZP codes.

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