

April 2, 2012

Materials Licensing Branch  
US NRC Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

Attn: Cassandra Frazier

Mail Control: 576903  
Ref: Material License No. 13-15933-01  
Old hot lab Close out survey

Dear Ms. Cassandra Frazier,

We have moved all the sealed sources, lead storage safe, L block and lead bricks from our old hot lab to the new hot lab on April 29, 2012. Immediately after the removal of sources, we surveyed the room and its surrounding areas for any residual contamination. We used 2 different calibrated survey meters, Victoreen GM 290 and Victoreen 451P, pressurized microR ion chamber. In addition we took wipes from counter top and floor and counted them using a Victoreen Deluxe Wipe Test Counter and a calibrated microcurie Cs137 source. We found the following results and are submitting for your review. Only after clearance from NRC, will we release the room for Unrestricted use.

We are submitting with this letter the following:

- a. A history of all radionuclides used at old storage room is attached.
- b. Current copies of the leak test results of Cs 137 and Sr 90 eye applicator.
- c. A diagram of our old storage room with survey results.
- d. Name of person performing the survey
- e. The date survey was performed.
- f. The instruments used for exposure rate measurement and analysis of wipes.
- g. Background readings.
- h. The date that survey instrument was calibrated.

If you have any questions please contact Ram Basavatia.

Thank you,

*Ram Basavatia*

Ram Basavatia

Tel. 219 757 6285

[basavatia@comcast.net](mailto:basavatia@comcast.net)

Franciscan St. Anthony Health-Crown Point

1201 South Main Street

Crown Point IN 46307

RECEIVED APR 10 2012

## CLOSEOUT SURVEY OF OLD HOT LAB

(A) Wipe Test Using Victoreen Deluxe Wipe Test Counter S/N 1674021  
Performed by Ram Basavatia, RSO on 3-29-12

1. Background:	13cpm
2. Countertop below L-shield and source loading area	6 cpm
3. Countertop where I 125 and Ir 192 boxes stored	8 cpm
On temporary basis	
4. Floor area 1	14cpm
5. Floor Area 2	9cpm
Check Source Cs 137 S/N 4206-156 Activity on	12720 cpm
1-28-05 is 0.56 microcurie	
And for 0.005 microcurie on 3-29-12 is	127 cpm

All 4 areas wipes shows removable activities is less than 0.005 microcuries

(B) Area Survey using 2 different survey meters

Survey meter 1 Victoreen GM 290 S/N 801      Calibrated 11-7-11  
Survey meter 2 Victoreen 451 P S/N 4439      Calibrated 3-21-12  
pressurized micro R ion chamber  
Survey done by Ram Basavatia on 3-29-12

	Victoreen GM 290	Victoreen 451 P
1. Background	10 microR/hr	5 microR/hr
2. Countertop area 1	10microR/hr	5 microR/hr
3. Countertop area 2	10microR/hr	5 microR/hr
4. Floor area 1	10microR/hr	5 microR/hr
5. Floor area 2	10microR/hr	5 microR/hr
6. Room Door	10microR/hr	5 microR/hr
7. Toilet	10microR/hr	5 microR/hr
8. Old Treatment	10microR/hr	5 microR/hr
Planning room		
9. IT ports room	10 microR/hr	5 microR/hr

Please see the diagram of our old storage facility.

*Ram Basavatia*

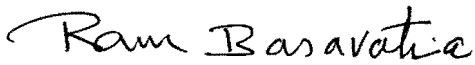
Ram Basavatia MS DABR  
Franciscan St. Anthony Health-Crown Point  
1201 South Main Street  
Crown Point IN 46307

History of all Radionuclides Used at Our Old Storage Room

We have stored only sealed sources in our old storage room. No radiopharmaceuticals were stored. Following radionuclides stored. There is no history of any leak source ever.

1. Cesium 137 sealed sources
2. Strontium 90 Eye Applicator
3. I 125 seeds for prostate implant on temporary basis
4. Iridium 192 seeds in nylon ribbon on temporary basis

No other radionuclides were stored there.



Ram Basavatia MS DABR

Franciscan St. Anthony Health-Crown Point



# St. Anthony Medical Center, Inc.

WIPE TEST RE

## SEALED SOURCE WIPE TEST RESULTS

Wipes Taken On: 2-15-2012Wipes Assayed On 2-15-2012By Ram Basavatia

By \_\_\_\_\_

Source (Type)	Count Time	Lon	Assay (CPM)	Contamination
Sr90 eye applicator, nominal 55 mCi Model source SIA-20/no.0572AL	1 min	12		$< 0.005 \mu\text{Ci}$
Handle of eye applicator	1 min	13		$< 0.005 \mu\text{Ci}$
Box of eye applicator	1 min	11		$< 0.005 \mu\text{Ci}$
ontrol (Background)	1 min	11		—
Cs137 (control)	1 min	182	$\times 10^2$	—
Counts for 0.005 UCi=	1		180 CPM	
Note: CS137 S/N 4206-156 See NBS Certificate Activity on 1-28-05 = $0.56 \mu\text{Ci}$				

The wipes were assayed using Wipe Test Counter Victoreen Model 05-578

Ram Basavatia  
Ram A. Basavatia  
Radiation Physicist  
ABR Certified, Tehr. Radiologic  
Physicist



# St. Anthony Medical Center, Inc.

## SEMI-ANNUAL SEALED SOURCES WIPE TESTS

Wipes Taken On 2-15-2012

Wipes Counted On 2-15-12

By Ram Basavatha

By Ram Basavatha

Serial No.	Rad. Therapy Sources, Inc. Model No.	Assayed mCi-Cs 137 As of 9/16/86	Assayed mgRa-Equiv As of 9/16/86	Count Time	CPM	Contamination
G1 (1477 MC)	RED	29.4	11.5	1 min	19	<0.005 MCI
I2 (1495 MC)	1862	30.0	11.7			
(1460 MC)		27.8	11.3			
E. (1465 MC)	Nominal	29.2	11.4			
E3 (1461 MC)	10 mg	29.5	11.5			
H2 (1486 MC)		29.5	11.5			
		Avg. 29.4	Avg. 11.5			
Q3 (1568 MC)	WHITE	57.0	22.2	1 min	18	<0.005 MCI
(1575 MC)	1864	57.2	22.4			
(1584 MC)		57.2	22.4			
R7 (1581 MC)		57.0	22.2			
R2 (1576 MC)		59.7	23.3			
T6 (1589 MC)		59.8	23.4			
		Avg. 58.0	Avg. 22.7			
V6 (2554 NS)	ORANGE	86.5	33.8	1 min	16	<0.005 MCI
(2560 NS)	1866	86.0	33.6			
		Avg. 86.3	Avg. 33.7			
L BLOCK				1 min	20	<0.005 MCI
SAFE				1 min	14	<0.005 MCI
BACKGROUND				1 Min	11	—
CONTROL	CS137	S/N 4206-156 see NBS Certificate		1 min	1,824	10 <sup>2</sup>
NOTE:		Activity on 1/28/05 =	0.56 MCI			

The wipes were assayed using Wipe Test Counter Victoreen Model 05-578

Checked By: Ram Basavatha

ATT 9.1.3

TREATMENT  
PLANNING

- ① Sources Storage Safe
- ② 2" thick Lead L-block
- ③ 2" thick Lead bricks
- ④ I125 seeds; Ir 192 Seeds  
in their original shipping  
containers - temporary  
Storage.

\* Sealed sources moved  
to new source storage  
room on 3-29-12 \*

\* Reading using  
Victoreen GM240  
and ② with  
Victoreen 451 ion chamber

- ① 10 MR/hr
- ② 5 MR/hr

PHYSICIST  
OFFICE

STAFF  
TOILET

- ① 10 MR/hr
- ③ 5 MR/hr

SOURCE  
ROOM

- ① 10 MR/hr
- ② 5 MR/hr

- ① 10 MR/hr
- ② 5 MR/hr
- ③ 5 MR/hr

IT Port  
Room  
(Closed all the time)

St. Anthony Medical Center  
Crown point, IN.

\*(old name of our Hospital)\*

Ram Basaviah

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in their original shipping  
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⊗ denotes  
wipes taken

PHYSICIST  
OFFICE

STAFF  
TOILET

SOURCE  
ROOM

IT Port  
Room

St. Anthony Medical Center  
Crown point, IN.  
(old name of our Hospital)

Ram Basavatia

7210

Ram Basavatia

RSO

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Crown Point, IN 46307

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