



COMMUNITY Hospital

February 6, 2015

U.S. Nuclear Regulatory Commission
Licensing Division Region III
2443 Warrenville Road, Suite 120
Lisle, IL 60532

RE: NRC Radioactive Material License #13-15882-03, The Community Hospital, Munster,
Indiana

Dear Sir or Madam:

We request that the Radiation Therapy Hot Lab room be removed from our license for unrestricted use. We have attached the closeout survey performed in this space. The attached survey demonstrates that the area is currently at background levels and is free of fixed and removable contamination.

1. Stan A. Huber Consultants, Inc. completed the closeout survey of the room on January 13, 2015. The survey data provided should meet all of your requirements to release this area for unrestricted use.
2. For additional survey specific information, please contact Kyle A. Smith, Stan A. Huber Consultants, Inc. at 800-383-0468

Thank you for your assistance in this matter. If you have any further questions please contact me at (219) 836-7351.

Sincerely,

A handwritten signature in black ink that reads "Santosh Kar".

Santosh Kar
Radiation Safety Officer
Enclosures

RECEIVED FEB 17 2015



February 6, 2015

Santosh Kar
Radiation Safety Officer
Community Hospital of Munster
901 MacArthur Blvd.
Munster, IN 46321

Dear Mr. Kar,

Work History

I performed the closeout survey of your Radiation Therapy brachytherapy seed storage room January 13, 2015.

1. Historical review of this license determined the primary sealed isotopes stored in this room were for brachytherapy purposes only. The primary isotopes that were stored in the room were Cs-137, I-125, I-131, and Pd-103.
2. The Cs-137 sealed sources have been leak tested at the required frequency to ensure that the sources have not leaked while being in storage.

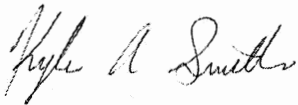
Survey Procedures

1. I performed a survey of the rooms using a Victoreen 190 SN #95997 with a pancake probe calibrated on June 20, 2014. I surveyed each square grid for one minute and found all grids to be at background (0.02 mR/hr).
2. A removable contamination survey was performed to determine the levels of radioactive materials used (Cs-137, I-125, I-131, and Pd-103).
 - a. The restricted survey areas were divided into 1-meter grid squares. The diagrams are attached to reference to wipe location for the removable contamination data. The survey included floors, sinks, counter tops, cabinets, and walls two meters up from the floor. Twenty locations were surveyed and wipes were taken in all restricted areas.
 - b. The removable survey data includes all locations identified on the diagram. I used the PerkinElmer Wizard² Gamma Well Counter to analyze the wipes. I collected samples from a minimum of 100 cm² area. Each sample was counted for one minutes with a ten-minute background count. The Minimum Detectable Concentration (MDC) calculation is provided on the results.

- c. The removable contamination data is attached to this report. The Wizard² Auto-Gamma analyzer is calibrated daily in accordance with the manufacturer's specifications. The data includes the instrument identification, count times, backgrounds, efficiency, and the MDC formula used in preparing this report. The data demonstrates that the removable contamination levels in the restricted areas are well below the release limits of 222 DPM/100 cm² for Cs-137, I-125, I-131, and Pd-103.
 - d. I used the reference indicated on the results for the calculation along with the NUREG 1507 for MDC calculations. I used the NUREG 1757 Consolidated Decommissioning Guidance for the release limits.
3. The surveys performed demonstrate that all of the areas represented on the diagrams are at background levels for fixed and removable contamination. The data provided is presented in a format that will meet the requirements of NRC for the release of areas for unrestricted use.

Thank you for allowing us to provide this support. Your staff was very helpful during this process. If you have any further questions, please contact me at (800) 383-0468.

Sincerely,
Stan A. Huber Consultants, Inc.



Kyle A. Smith
Health Physics Consultant

kas

Community - Munster
Close Out Survey

Removable Contamination Data

Report Date: 27-Jan-15

Detectors	Manf	Model	SN
Auto-Gamma	Wizard	2470-0200	24700022

Survey Date: 13-Jan-15

Analysis Date: **Gamma**
14-Jan-15

	I-131/Pd-103
Sample Count Time (t _g)	1
Bkg Count Time (t _b)	10
Bkg (R _b)	214
Efficiency	0.839
MDC	64

$$MDC = \frac{3 + 3.29 \sqrt{R_b t_g (1 + \frac{t_g}{t_b})}}{(Efficiency)(t_g)}$$

DPM=DPM per 100 cm²

Flag/Limit*	I-131/Pd-103	
Location Description	CPM	DPM
Hot Lab Floor		
A1	198	-19
B1	263	58
C1	214	0
A2	215	1
B2	246	38
C2	202	-14
A3	218	5
B3	229	18
C3	207	-8
A4	191	-27
B4	222	10
C4	232	21
North Wall		
A5 - C5	208	-7
A6 - C6	235	25
East Wall		
D7 - G7	219	6
D8 - G8	172	-50

Community - Munster
Close Out Survey

Removable Contamination Data

Report Date: 27-Jan-15

Survey Date: 13-Jan-15

Detectors	Manf	Model	SN
Auto-Gamma	Wizard	2470-0200	24700022

Analysis Date: **Gamma**
14-Jan-15

	I-125
Sample Count Time (t _g)	1
Bkg Count Time (t _b)	10
Bkg (R _b)	214
Efficiency	0.628
MDC	85

$$MDC = \frac{3 + 3.29 \sqrt{R_b t_g (1 + \frac{t_g}{t_b})}}{(Efficiency)(t_g)}$$

DPM=DPM per 100 cm²

Flag/Limit*	I-125	
Location Description	CPM	DPM
Hot Lab Floor		
A1	198	-25
B1	263	78
C1	214	0
A2	215	2
B2	246	51
C2	202	-19
A3	218	6
B3	229	24
C3	207	-11
A4	191	-37
B4	222	13
C4	232	29
North Wall		
A5 - C5	208	-10
A6 - C6	235	33
East Wall		
D7 - G7	219	8
D8 - G8	172	-67

Community - Munster
Close Out Survey

Removable Contamination Data

Report Date: 27-Jan-15

Survey Date: 13-Jan-15

Detectors	Manf	Model	SN
Auto-Gamma	Wizard	2470-0200	24700022

Analysis Date: **Gamma**
14-Jan-15

	Cs-137
Sample Count Time (t _g)	1
Bkg Count Time (t _b)	10
Bkg (R _b)	214
Efficiency	0.276
MDC	194

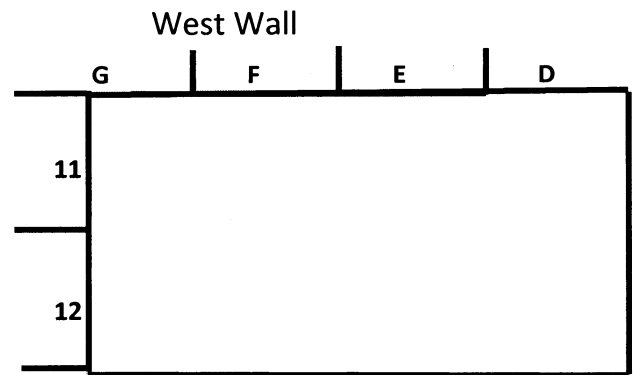
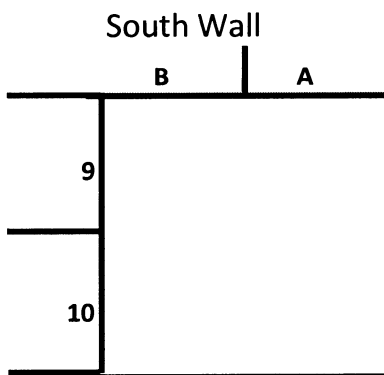
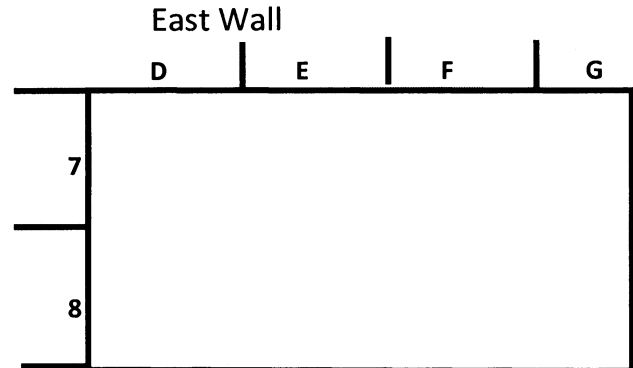
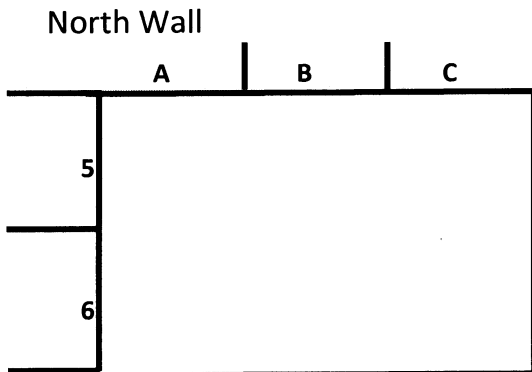
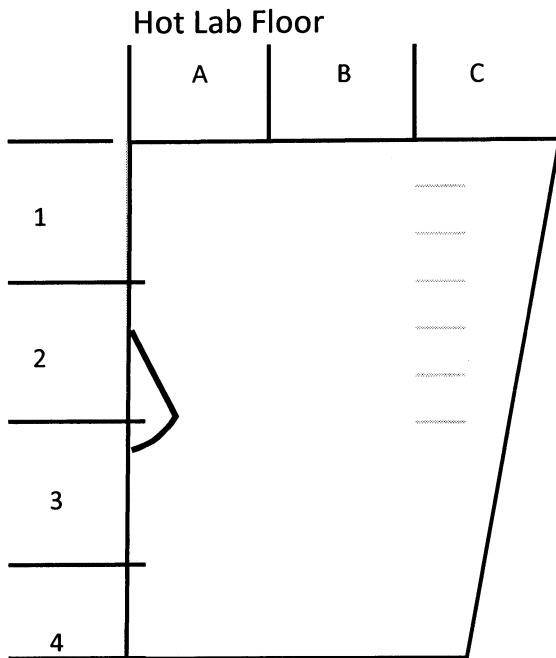
$$MDC = \frac{3 + 3.29 \sqrt{R_b t_g (1 + \frac{t_g}{t_b})}}{(Efficiency)(t_g)}$$

DPM=DPM per 100 cm²

Flag/Limit*	Cs-137	
Location Description	CPM	DPM
Hot Lab Floor		
A1	198	-58
B1	263	178
C1	214	0
A2	215	4
B2	246	116
C2	202	-43
A3	218	14
B3	229	54
C3	207	-25
A4	191	-83
B4	222	29
C4	232	65
North Wall		
A5 - C5	208	-22
A6 - C6	235	76
East Wall		
D7 - G7	219	18
D8 - G8	172	-152

Community - Munster Close-out
Munster, IN
License: 13-15882-01

Each square block \approx 1ft X 1ft





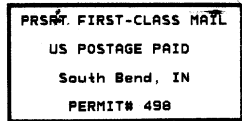
Radiation Therapy Services • The Community Hospital
901 MacArthur Boulevard • Munster, Indiana 46321

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