

REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY MEDICAL DEPARTMENT ACTIVITY
4500 STUART STREET
FORT JACKSON, SC 29207-5720
May 3, 2005

Preventive Medicine Service

J-3

Nuclear Regulatory Commission
Region 1
Division of Nuclear Materials Safety
Attention: Licensing
475 Allendale Road
King of Prussia, Pennsylvania 10406-1415

Dear Sir or Madam:

03008195

Request that Nuclear Regulatory Commission License Number 39-14873-01 be amended to remove Room 1118 of Building 4500 (Moncrief Army Community Hospital) as a radiation area. A close-out survey has been conducted and is enclosed. This area was used by the Health Physics Office to conduct swipe counting, to store radiation detection equipment and the equipments' exempt quantity sealed sources used for equipment constancy checks. Moncrief Army Community Hospital's Radiation Safety Committee approved this room for removal in an ad hoc meeting on April 26, 2005.

For further information, please contact First Lieutenant Gary L. Hall at (803) 751-4552.

Sincerely,

James M. Baunchalk, M.D.
Colonel, U.S. Army
Commander

Enclosure

136967
NMSS/RGNI MATERIALS-002



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY MEDICAL DEPARTMENT ACTIVITY
4500 STUART STREET
FORT JACKSON, SC 29207-5720
May 2, 2005

Preventive Medicine Service

Nuclear Regulatory Commission
Region 1
Division of Nuclear Materials Safety
Attention: Licensing
475 Allendale Road
King of Prussia, Pennsylvania 10406-1415

Dear Sir or Madam:

On April 25th, a close out survey was conducted on the radiation area portion of room 1118 (Radiation Safety Office, (enclosure 1)) of building 4500 (Moncrief Army Community Hospital). All of the survey results were below the minimum detectable activity (enclosure 2). The Radiation Safety Committee (RSC) approved the removal of room 1118 from building 4500 from the license (NRC License No. 39-14873-01) in an RSC email on April 28th (enclosure 3).

The room only stored radiation detection equipment along with the equipments' individual exempt quantity check sources used for equipment constancy checks. This section of the room was also the location where the autogamma was placed in order to run swipes from the Nuclear Medicine Section of the hospital.

The autogamma, the radiation detection equipment, the equipments' individual check sources, as well as all of the furnishing in the room were moved from room 1118 to room 1016 on February 22nd. The following additional information is provided:

- a. No open sources were used in room 1118.
- b. The walls and floor surface inside the lab area were gridded to 50 cm by 50 cm blocks. As recommended by Ms. Bailey, Radiation Specialist, NRC Region I (enclosure 4), two broad area swipes were taken in each of the 2500 cm² blocks.
- c. Nuclear Medicine uses the following isotopes:

<u>Isotope</u>	<u>½ life</u>
1) Technetium 99m (Tc-99m)	6.02 hours
2) Iodine 123 (I-123)	13.13 hours
3) Thallium 201 (Tl-201)	73.06 hours
4) Indium 111 (In-111)	2.83 days
5) Gallium (Ga-67)	3.261 days

2

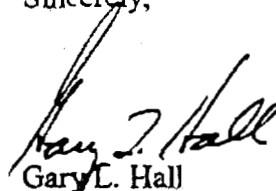
- | | |
|-----------------------|------------|
| 6) Xenon 133 (Xe-133) | 5.245 days |
| 7) Iodine 131 (I-131) | 8.04 days |

- d. All sources requiring semi-annual leak checks are secured in the Nuclear Medicine Section of the hospital.

The eleventh floor of the hospital is scheduled to be renovated in the near future. Please advise if you require any additional information pertaining to our request to remove room 1118 from the hospital's NRC license (NRC License No. 39-14873-01). I may be contacted by:

Telephone: (803) 751-4552/2207
Email: gary.hall@se.amedd.army.mil
Mail: Commander
4500 Stuart Street
ATTN: Preventive Medicine Department, Health Physics Section
Columbia, South Carolina 20207

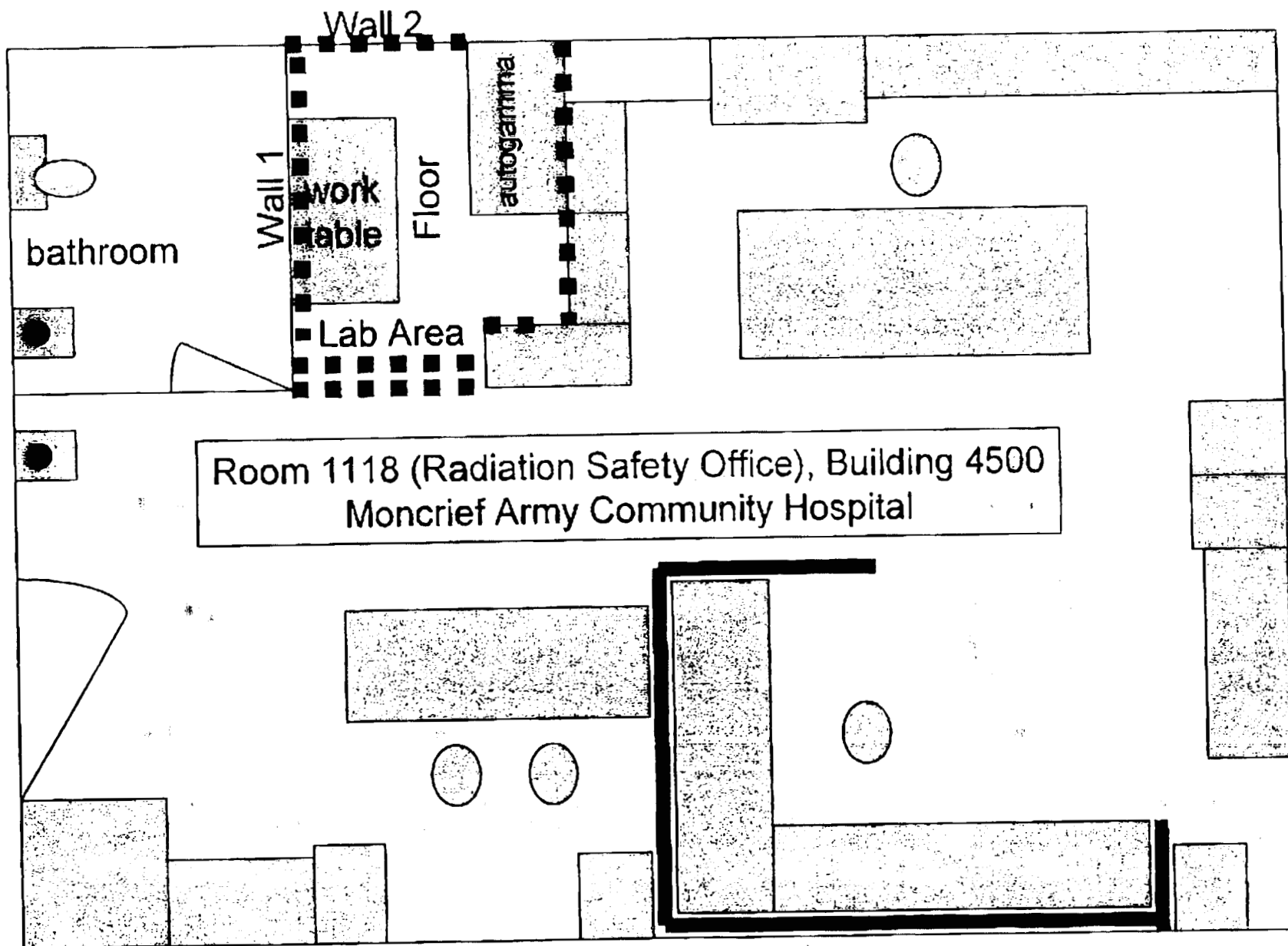
Sincerely,



Gary L. Hall
First Lieutenant, Medical Service Corps
Radiation Safety Officer

Enclosures

Enclosure 1



Room 1118 (Radiation Safety Office), Building 4500
Moncrief Army Community Hospital

The interior walls and floor surface of the lab area were surveyed for removable contamination.

MONCRIEF ARMY COMMUNITY HOSPITAL
WEEKLY CONTAMINATION/AREA SURVEY

Date of survey: 25 April 2005 Surveyed by SPC Denton

Instruments	Manufacturer	Model	Serial#	Calibration Due Date	Check Source Pass/ Fail
Survey Meter	Inovision	451P	6069	26 Aug 05	Pass
Survey Meter					

Discrepancies Noted: None

Action Taken: None

Resurvey Information

Resurvey Required: YES NO

Date of survey: _____ Surveyed by: _____

Instruments	Manufacturer	Model	Serial#	Calibration Date	Check Source Pass/ Fail
Survey Meter					
Survey Meter					

Discrepancies Noted: _____

Action Taken: _____

REVIEWED BY RPO: [Signature]

25 APR 2005 08:54

CALIBRATION REPORT

Page #1

MONCRIEF ARMY COMMUNITY HOSPITAL

RESOLUTION (FWHM): 23.7

CALIBRATION HIGH VOLTAGE: 1371

CHI SQUARE (99% CONFIDENCE RANGE = 7.65 - 36.19):

Counts:

Run # 1 - 4	33364	33191	33497	33709
Run # 5 - 8	33626	33567	33510	33114
Run # 9 - 12	33514	33224	33379	33070
Run #13 - 16	33443	33354	33567	33036
Run #17 - 20	33393	33422	33314	33273

Chi Square = 19.51

Mean = 33390

Std Dev = 165.2

SDC = 0.65

BACKGROUND (15 - 2000 keV): 241.21

25 APR 2005 09:50

MONCRIEF ARMY COMMUNITY HOSPITAL

Page #1

Protocol #:10

weekly swipes

User :

Count Time(minutes): 2.00
 Assay Type: CPM
 Background Subtract : Protocol Bkg
 Outlier: S.O FLAG
 %Spillup: 0.00
 %Spilldown: 0.00
 Screening: OFF

Nuclide:	Window A		Window B		Window C	
	HAN	15 - 100 keV	HAN	100 - 200 keV	HAN	200 - 650 keV
Bkg:	40.5		35.0		99.7	
Signa:	0.00		0.00		0.00	
LCR:	0		0		0	
Half Life(hours):	0.00		0.00			
Multiplier:	1.0000					
TCV Flag Limit:	0.00		0.00			

#	TIME	A:CPM	B:CPM	C:CPM
1	2.00	0.0	0.0	0.0
2	2.00	0.0	0.0	11.2
3	2.00	0.0	0.0	8.3
4	2.00	0.0	0.0	0.0
5	2.00	0.0	1.0	5.3
6	2.00	5.5	0.5	3.8
7	2.00	0.0	0.0	0.0
8	2.00	0.0	0.0	0.0
9	2.00	0.0	0.0	1.8
10	2.00	0.0	0.0	2.8
11	2.00	0.0	0.0	0.0
12	2.00	1.0	0.0	11.3
13	2.00	0.0	0.0	0.0
14	2.00	0.0	0.0	6.3
15	2.00	0.0	13.0	4.3
16	2.00	1.5	0.5	14.3
17	2.00	4.5	0.0	0.0
18	2.00	3.0	0.0	0.0
19	2.00	3.0	0.0	0.0
20	2.00	4.0	0.0	10.3
21	2.00	1.5	0.0	11.3
22	2.00	2.0	0.5	3.8
23	2.00	0.0	0.0	0.0
24	2.00	3.0	1.5	0.0
25	2.00	0.0	0.5	0.8
26	2.00	0.5	1.5	1.3
27	2.00	0.0	0.0	4.3
28	2.00	0.0	0.0	3.3
29	2.00	1.5	0.0	0.0
30	2.00	3.0	1.5	6.3
31	2.00	1.0	1.0	1.8
32	2.00	0.0	0.0	0.0
33	2.00	0.0	2.5	0.0
34	2.00	0.0	3.5	0.0

5 Apr 2005 11:08

MONCRIEF ARMY COMMUNITY HOSPITAL

Page 11/34

rotocol #:10

weekly swipes

User :

SN#	TIME	A:CPM	B:CPM	C:CPM
35	2.00	0.0	1.0	4.8
36	2.00	1.0	0.0	0.0
37	2.00	0.0	3.0	13.3
38	2.00	0.0	0.0	0.0
39	2.00	2.0	1.5	0.0
40	2.00	3.0	0.0	3.8
41	2.00	0.0	0.0	0.0
42	2.00	0.0	0.5	4.3
43	2.00	0.0	0.0	7.3
44	2.00	0.0	0.0	0.0
45	2.00	0.0	0.0	0.0
46	2.00	0.0	0.0	5.3
47	2.00	5.5	0.0	4.3
48	2.00	0.0	0.0	0.3
49	2.00	0.0	0.0	4.3
50	2.00	1.0	0.0	7.3
51	2.00	0.0	0.0	0.8
52	2.00	0.0	0.0	0.0
53	2.00	0.0	0.0	0.0
54	2.00	0.0	0.0	6.8
55	2.00	6.0	0.0	0.0
56	2.00	0.0	0.0	0.0
57	2.00	4.0	1.0	0.0
58	2.00	0.0	0.0	4.8
59	2.00	0.0	1.0	3.8
60	2.00	3.5	0.0	0.0
61	2.00	0.0	0.0	0.0
62	2.00	3.5	0.0	0.0
63	2.00	0.0	0.0	6.8
64	2.00	4.0	0.0	0.8
65	2.00	0.0	0.0	1.8
66	2.00	0.0	0.0	13.8
67	2.00	3.5	0.0	0.0
68	2.00	2.0	0.0	0.0
69	2.00	4.5	0.0	0.0
70	2.00	8.0	5.5	1.8
71	2.00	0.0	0.0	1.3
72	2.00	0.5	0.0	2.3
73	2.00	1.0	0.5	0.0
74	2.00	2.5	0.0	16.3
75	2.00	5.0	0.0	11.8
76	2.00	0.0	0.0	5.8
77	2.00	0.0	0.0	8.3
78	2.00	0.0	0.0	0.0
79	2.00	0.0	0.0	0.3
80	2.00	0.0	1.0	4.3
81	2.00	0.0	1.0	0.0
82	2.00	2.0	0.0	0.0
83	2.00	9.0	0.0	0.0
84	2.00	0.0	1.0	7.3
85	2.00	0.0	0.0	0.0
86	2.00	0.0	0.5	5.8

1 APR 2005 13:06
 protocol #10

MONCRIEF ARMY COMMUNITY HOSPITAL
 weekly swipes

Page #1
 User :

SN	TIME	A:CPM	B:CPM	C:CPM
87	2.00	0.0	0.0	0.0
88	2.00	0.0	0.0	0.0
89	2.00	0.0	2.0	11.8
90	2.00	0.0	0.0	3.8
91	2.00	1.0	1.0	4.3
92	2.00	2.5	0.0	0.0
93	2.00	1.0	2.5	0.0
94	2.00	2.5	0.5	0.0
95	2.00	1.5	0.0	0.0
96	2.00	4.0	0.0	0.3
97	2.00	1.0	4.0	0.0
98	2.00	7.5	0.0	0.0
99	2.00	1.0	0.0	5.8
100	2.00	0.0	0.0	3.3
101	2.00	0.0	0.0	11.3
102	2.00	7.0	0.0	0.0
103	2.00	2.5	0.5	2.3
104	2.00	3.0	0.0	0.0
105	2.00	2.0	0.0	0.0
106	2.00	0.0	0.5	20.8
107	2.00	0.0	0.0	0.0
108	2.00	0.0	0.0	0.0
109	2.00	0.0	0.0	13.8
110	2.00	3.0	0.0	14.3
111	2.00	4.5	0.0	3.8
112	2.00	8.5	0.0	3.3
113	2.00	5.0	0.0	8.3
114	2.00	2.3	0.0	0.0
115	2.00	0.0	0.0	0.0
116	2.00	0.5	0.0	12.3
117	2.00	0.0	0.0	0.0
118	2.00	0.0	2.5	8.3
119	2.00	0.0	1.5	2.3
120	2.00	0.0	0.0	12.3
121	2.00	4.5	0.0	10.3
122	2.00	1.5	0.0	0.0
123	2.00	0.0	0.0	4.3
124	2.00	3.0	0.0	0.0
125	2.00	0.0	0.0	5.8
126	2.00	1.0	0.0	0.0
127	2.00	0.0	0.0	7.3
128	2.00	0.0	0.0	1.8
129	2.00	1.0	1.0	0.0
130	2.00	9.5	0.0	0.0
131	2.00	2.0	0.0	4.3
132	2.00	0.0	0.0	0.3
133	2.00	0.0	0.0	4.8
134	2.00	1.5	0.0	1.3
135	2.00	0.0	1.5	7.8
136	2.00	1.5	0.5	0.0
137	2.00	0.0	0.0	12.3

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	Channel A Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM
	In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer								
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
1	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
2	0.00	0.62	0.00	0.00	0.69	0.00	11.80	0.38	31.05
3	0.00	0.62	0.00	0.00	0.69	0.00	8.30	0.38	21.84
4	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
5	0.00	0.62	0.00	1.00	0.69	0.00	5.30	0.38	13.95
6	5.50	0.62	8.87	0.50	0.69	0.72	3.80	0.38	10.00
7	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
8	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
9	0.00	0.62	0.00	0.00	0.69	0.00	1.80	0.38	4.74

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	CPM	Channel A Efficiency for Tl-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Count									
10	0.00	0.62	0.00	0.00	0.69	0.00	2.80	0.38	7.37
11	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
12	1.00	0.62	1.61	0.00	0.69	0.00	11.30	0.38	29.74
13	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
14	0.00	0.62	0.00	0.00	0.69	0.00	6.30	0.38	16.58
15	0.00	0.62	0.00	13.00	0.69	18.84	4.30	0.38	11.32
16	1.50	0.62	2.42	0.50	0.69	0.72	14.30	0.38	37.63
17	4.50	0.62	7.26	0.00	0.69	0.00	0.00	0.38	0.00
18	3.00	0.62	4.84	0.00	0.69	0.00	0.00	0.38	0.00

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
19	3.00	0.62	4.84	0.00	0.69	0.00	0.00	0.38	0.00
20	4.00	0.62	6.45	0.00	0.69	0.00	10.30	0.38	27.11
21	1.50	0.62	2.42	0.00	0.69	0.00	11.30	0.38	29.74
22	2.00	0.62	3.23	0.50	0.69	0.72	3.80	0.38	10.00
23	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
24	3.00	0.62	4.84	1.50	0.69	2.17	0.00	0.38	0.00
25	0.00	0.62	0.00	0.50	0.69	0.72	0.80	0.38	2.11
26	0.50	0.62	0.81	1.50	0.69	2.17	1.30	0.38	3.42
27	0.00	0.62	0.00	0.00	0.69	0.00	4.30	0.38	11.32

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
28	0.00	0.62	0.00	0.00	0.69	0.00	3.30	0.38	8.68
29	1.50	0.62	2.42	0.00	0.69	0.00	0.00	0.38	0.00
30	3.00	0.62	4.84	1.50	0.69	2.17	6.30	0.38	16.58
31	1.00	0.62	1.61	1.00	0.69	1.45	1.80	0.38	4.74
32	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
33	0.00	0.62	0.00	2.50	0.69	3.62	0.00	0.38	0.00
34	0.00	0.62	0.00	3.50	0.69	5.07	0.00	0.38	0.00
35	0.00	0.62	0.00	1.00	0.69	1.45	4.80	0.38	12.63
36	1.00	0.62	1.61	0.00	0.69	0.00	0.00	0.38	0.00

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	Channel A Efficiency CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	Channel B Efficiency CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	Channel C Efficiency CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
37	0.00	0.62	0.00	3.00	0.69	4.35	13.30	0.38	35.00
38	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
39	2.00	0.62	3.23	1.50	0.69	2.17	0.00	0.38	0.00
40	3.00	0.62	4.84	0.00	0.69	0.00	3.80	0.38	10.00
41	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
42	0.00	0.62	0.00	0.50	0.69	0.72	4.30	0.38	11.32
43	0.00	0.62	0.00	0.00	0.69	0.00	7.30	0.38	19.21
44	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
45	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
CHANNEL A			CHANNEL B			CHANNEL C			
	Channel A Efficiency CPM	DPM Equivalent (CPM/Efficiency)	Channel B Efficiency CPM	DPM Equivalent (CPM/Efficiency)	Channel C Efficiency CPM	DPM Equivalent (CPM/Efficiency)	Channel C Efficiency CPM	DPM Equivalent (CPM/Efficiency)	
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
46	0.00	0.62	0.00	0.00	0.69	0.00	5.30	0.38	13.95
47	5.50	0.62	8.87	0.00	0.69	0.00	4.30	0.38	11.32
48	0.00	0.62	0.00	0.00	0.69	0.00	0.30	0.38	0.79
49	0.00	0.62	0.00	0.00	0.69	0.00	4.30	0.38	11.32
50	1.00	0.62	1.61	0.00	0.69	0.00	7.30	0.38	19.21
51	0.00	0.62	0.00	0.00	0.69	0.00	0.80	0.38	2.11
52	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
53	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
54	0.00	0.62	0.00	0.00	0.69	0.00	6.80	0.38	17.89

CPM conversion to DPM for Room 1118 (Radiation Safety Office),
Building 4500 (Moncrief Army Community Hospital)

	CHANNEL A			CHANNEL B			CHANNEL C		
	Channel A Efficiency CPM for Tl-201 (62%)	DPM Equivalent (CPM/Efficiency)		Channel B Efficiency CPM for I-123 (69%)	DPM Equivalent (CPM/Efficiency)		Channel C Efficiency CPM for I-131 (38%)	DPM Equivalent (CPM/Efficiency)	
	In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer								
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.20	0.38	63.21
Swipe Number									
53	6.00	0.62	9.68	0.00	0.69	0.00	0.00	0.38	0.00
56	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
57	4.00	0.62	6.45	1.00	0.69	1.45	0.00	0.38	0.00
58	0.00	0.62	0.00	0.00	0.69	0.00	4.80	0.38	12.63
59	0.00	0.62	0.00	1.00	0.69	1.45	3.80	0.38	10.00
60	3.50	0.62	5.65	0.00	0.69	0.00	0.00	0.38	0.00
61	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
62	3.50	0.62	5.65	0.00	0.69	0.00	0.00	0.38	0.00
63	0.00	0.62	0.00	0.00	0.69	0.00	6.80	0.38	17.89

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	CPM	Channel A Efficiency for Tl-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
64	4.00	0.62	6.45	0.00	0.69	0.00	0.80	0.38	2.11
65	0.00	0.62	0.00	0.00	0.69	0.00	1.80	0.38	4.74
66	0.00	0.62	0.00	0.00	0.69	0.00	13.80	0.38	36.32
67	3.50	0.62	5.65	0.00	0.69	0.00	0.00	0.38	0.00
68	2.00	0.62	3.23	0.00	0.69	0.00	0.00	0.38	0.00
69	4.50	0.82	7.26	0.00	0.69	0.00	0.00	0.38	0.00
70	8.00	0.62	12.90	5.50	0.69	7.97	1.80	0.38	4.74
71	0.00	0.62	0.00	0.00	0.69	0.00	1.30	0.38	3.42
72	0.50	0.62	0.81	0.00	0.69	0.00	2.30	0.38	6.05

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	Channel A Efficiency CPM	Channel A Efficiency for Tl-201 (62 %)	DPM Equivalent (CPM/Efficiency)	Channel B Efficiency CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	Channel C Efficiency CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
73	1.00	0.62	1.61	0.50	0.69	0.72	0.00	0.38	0.00
74	2.50	0.62	4.03	0.00	0.69	0.00	16.30	0.38	42.89
75	5.00	0.62	8.06	0.00	0.69	0.00	11.80	0.38	31.05
76	0.00	0.62	0.00	0.00	0.69	0.00	5.80	0.38	15.26
77	0.00	0.62	0.00	0.00	0.69	0.00	8.30	0.38	21.84
78	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
79	0.00	0.62	0.00	0.00	0.69	0.00	0.30	0.38	0.79
80	0.00	0.62	0.00	1.00	0.69	1.45	4.30	0.38	11.32
81	0.00	0.62	0.00	1.00	0.69	1.45	0.00	0.38	0.00

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	Channel A Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM
	In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer								
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
82	2.00	0.62	3.23	0.00	0.69	0.00	0.00	0.38	0.00
83	9.00	0.62	14.52	0.00	0.69	0.00	0.00	0.38	0.00
84	0.00	0.62	0.00	1.00	0.69	1.45	7.30	0.38	19.21
85	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
86	0.00	0.62	0.00	0.50	0.69	0.72	5.80	0.38	15.26
87	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
88	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
89	0.00	0.62	0.00	2.00	0.69	2.80	11.80	0.38	31.05
90	0.00	0.62	0.00	0.00	0.69	0.00	3.80	0.38	10.00

**CPM conversion to DPM for Room 1118 (Radiation Safety Office),
Building 4500 (Moncrief Army Community Hospital)**

	CHANNEL A			CHANNEL B			CHANNEL C		
	CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
91	1.00	0.62	1.61	1.00	0.69	1.45	4.30	0.38	11.32
92	2.50	0.62	4.03	0.00	0.69	0.00	0.00	0.38	0.00
93	1.00	0.62	1.61	2.50	0.69	3.62	0.00	0.38	0.00
94	2.50	0.62	4.03	0.50	0.69	0.72	0.00	0.38	0.00
95	1.50	0.62	2.42	0.00	0.69	0.00	0.00	0.38	0.00
96	4.00	0.62	6.45	0.00	0.69	0.00	0.30	0.38	0.79
97	1.00	0.62	1.61	4.00	0.69	5.80	0.00	0.38	0.00
98	7.50	0.62	12.10	0.00	0.69	0.00	0.00	0.38	0.00
99	1.00	0.62	1.61	0.00	0.69	0.00	5.80	0.38	15.28

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
100	0.00	0.62	0.00	0.00	0.69	0.00	3.30	0.38	8.68
101	0.00	0.62	0.00	0.00	0.69	0.00	11.30	0.38	29.74
102	7.00	0.62	11.29	0.00	0.69	0.00	0.00	0.38	0.00
103	2.50	0.62	4.03	0.50	0.69	0.72	2.30	0.38	6.05
104	3.00	0.62	4.84	0.00	0.69	0.00	0.00	0.38	0.00
105	2.00	0.62	3.23	0.00	0.69	0.00	0.00	0.38	0.00
106	0.00	0.62	0.00	0.50	0.69	0.72	20.80	0.38	54.74
107	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
108	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00

CPM conversion to DPM for Room 1118 (Radiation Safety Office), Building 4500 (Moncrief Army Community Hospital)									
	CHANNEL A			CHANNEL B			CHANNEL C		
	CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
109	0.00	0.62	0.00	0.00	0.69	0.00	13.80	0.38	36.32
110	3.00	0.62	4.84	0.00	0.69	0.00	14.30	0.38	37.63
111	4.50	0.62	7.26	0.00	0.69	0.00	3.80	0.38	10.00
112	8.50	0.62	13.71	0.00	0.69	0.00	3.30	0.38	8.68
113	5.00	0.62	8.06	0.00	0.69	0.00	8.30	0.38	21.84
114	2.50	0.62	4.03	0.00	0.69	0.00	0.00	0.38	0.00
115	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00
116	0.50	0.62	0.81	0.00	0.69	0.00	12.30	0.38	32.37
117	0.00	0.62	0.00	0.00	0.69	0.00	0.00	0.38	0.00

**CPM conversion to DPM for Room 1118 (Radiation Safety Office),
Building 4500 (Moncrief Army Community Hospital)**

CHANNEL A

CHANNEL B

CHANNEL C

CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
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In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer

Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
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Swipes Number	CPM	Channel A Efficiency for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)
118	0.00	0.62	0.00	2.50	0.69	3.62	8.30	0.38	21.84
119	0.00	0.62	0.00	1.50	0.69	2.17	2.30	0.38	6.05
120	0.00	0.62	0.00	0.00	0.69	0.00	12.30	0.38	32.37
121	4.50	0.62	7.26	0.00	0.69	0.00	10.30	0.38	27.11
122	1.50	0.62	2.42	0.00	0.69	0.00	0.00	0.38	0.00
123	0.00	0.62	0.00	0.00	0.69	0.00	4.30	0.38	11.32
124	3.00	0.62	4.84	0.00	0.69	0.00	0.00	0.38	0.00
125	0.00	0.62	0.00	0.00	0.69	0.00	5.80	0.38	15.26
126	1.00	0.62	1.61	0.00	0.69	0.00	0.00	0.38	0.00

**CPM conversion to DPM for Room 1118 (Radiation Safety Office),
Building 4500 (Moncrief Army Community Hospital)**

	CHANNEL A			CHANNEL B			CHANNEL C		
	Channel A Efficiency CPM for TI-201 (62 %)	DPM Equivalent (CPM/Efficiency)		Channel B Efficiency CPM for I-123 (69 %)	DPM Equivalent (CPM/Efficiency)		Channel C Efficiency CPM for I-131 (38 %)	DPM Equivalent (CPM/Efficiency)	
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
127	0.00	0.62	0.00	0.00	0.69	0.00	7.30	0.38	19.21
128	0.00	0.62	0.00	0.00	0.69	0.00	1.80	0.38	4.74
129	1.00	0.62	1.61	1.00	0.69	1.45	0.00	0.38	0.00
130	9.50	0.62	15.32	0.00	0.69	0.00	0.00	0.38	0.00
131	2.00	0.62	3.23	0.00	0.69	0.00	4.30	0.38	11.32
132	0.00	0.62	0.00	0.00	0.69	0.00	0.30	0.38	0.79
133	0.00	0.62	0.00	0.00	0.69	0.00	4.80	0.38	12.63
134	1.50	0.62	2.42	0.00	0.69	0.00	1.30	0.38	3.42
135	0.00	0.62	0.00	1.50	0.69	2.17	7.80	0.38	20.53

CPM conversion to DPM for Room 1118 (Radiation Safety Office),
Building 4500 (Moncrief Army Community Hospital)

	CHANNEL A			CHANNEL B			CHANNEL C		
	Channel A Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM	Channel B Efficiency CPM	DPM Equivalent (CPM/Efficiency)	CPM	Channel C Efficiency CPM	DPM Equivalent (CPM/Efficiency)	
	for Tl-201 (62 %)			for I-123 (69 %)			for I-131 (38 %)		
In order to determine the most conservative estimate for calculating DPM, I divided the swipe CPM by the isotope with the lowest efficiency for each respective channel. -LT Gary L. Hall, Radiation Safety Officer									
Lower Limit of Detection	17.60	0.62	28.39	16.40	0.69	23.77	24.40	0.38	64.21
Swipe Number									
136	1.50	0.62	2.42	0.50	0.69	0.72	0.00	0.38	0.00
137	0.00	0.62	0.00	0.00	0.69	0.00	12.30	0.38	32.37

05/25/2005 14:42 803-751-2321

MOD FORT JACKSON

5:35 09/34

WALL 1

1	9	17	25	33	41
2	10	18	26	34	42
3	11	19	27	35	43
4	12	20	28	36	44
5	13	21	29	37	45
6	14	22	30	38	46
7	15	23	31	39	47
8	16	24	32	40	48

0.01 mR/hr Reading
0.02 mR/hr background

WALL 2

49	56	63	70	77
50	57	64	71	78
51	58	65	72	79
52	59	66	73	80
53	60	67	74	81
54	61	68	75	82
55	62	69	76	83

0.009 mR/hr reading
0.02 mR/hr background

Wall 1

84	93	102	111	120	129
85	94	103	112	121	130
86	95	104	113	122	131
87	96	105	114	123	132
88	97	106	115	124	133
89	98	107	116	125	134
90	99	108	117	126	135
91	100	109	118	127	136
92	101	110	119	128	137

Wall 2

Floor Diagram

0.008 mR/hr reading
0.02 mR/hr background

Hall, Gary L 1LT MACH

From: Hall, Gary L 1LT MACH
Sent: Tuesday, April 26, 2005 3:59 PM
To: Anderson, DiAnn C Ms MACH; Blue, Peter W Dr MACH; Bodey, Timothy E COL MACH; Davidson, Daniel R COL MACH; Gratton, Terri L Ms MACH; Hall, Gary L 1LT MACH; Jimenez, Dan H LTC MACH; Paris, Otis L Jr Mr MACH; Phyll, Gertdell LTC MACH; Smith, Iris S Ms MACH; Washowich, Timothy L LTC MACH; Young, James E CW3 MACH
Subject: Removal of Room 1118
Importance: High
Follow Up Flag: Follow up
Due By: Friday, April 29, 2005 12:00 AM
Flag Status: Red

Tracking:	Recipient	Delivery	Read	Response
	Anderson, DiAnn C Ms MACH	Delivered: 4/26/2005 4:03 PM	Read: 4/27/2005 9:22 AM	Yes: 4/27/2005 9:23 AM - non voting member
	Blue, Peter W Dr MACH	Delivered: 4/26/2005 4:03 PM		not available
	Bodey, Timothy E COL MACH	Delivered: 4/26/2005 4:03 PM	Read: 4/27/2005 8:18 AM	Yes: 4/27/2005 8:19 AM
	Davidson, Daniel R COL MACH	Delivered: 4/26/2005 4:03 PM	Read: 4/26/2005 4:20 PM	Yes: 4/26/2005 4:21 PM
	Gratton, Terri L Ms MACH	Delivered: 4/26/2005 4:03 PM	Read: 4/26/2005 4:28 PM	non-voting member
	Hall, Gary L 1LT MACH	Delivered: 4/26/2005 4:03 PM	Read: 4/26/2005 3:59 PM	Yes: 4/26/2005 4:00 PM
	Jimenez, Dan H LTC MACH	Delivered: 4/26/2005 4:03 PM		Yes: 4/26/2005 4:08 PM
	Paris, Otis L Jr Mr MACH	Delivered: 4/26/2005 4:03 PM	Read: 5/2/2005 9:18 AM	Yes: 5/2/2005 9:19 AM
	Phyll, Gertdell LTC MACH	Delivered: 4/26/2005 4:03 PM		Yes: 4/27/2005 7:18 AM
	Smith, Ins S Ms MACH	Delivered: 4/26/2005 4:03 PM	Read: 4/26/2005 4:07 PM	non-voting member
	Washowich, Timothy L LTC MACH	Delivered: 4/26/2005 4:03 PM	Read: 4/27/2005 7:39 AM	Yes: 4/27/2005 7:39 AM
	Young, James E CW3 MACH	Delivered: 4/26/2005 4:03 PM		Yes: 4/26/2005 4:30 PM

Ladies and Gentlemen:

8 for, 1 unavailable, 0 against

A close out survey has been conducted for room 1118 (my old office). No removable contamination was detected above the minimum detectable activity (MDA). Therefore, I am recommending that room 1118 be released back to the hospital for unrestricted use.

Please select the appropriate button above as to either:

- a. Yes, you approve of releasing the room.
- b. No, you do not approve of releasing the room.

This email will become part of the packet that will be mailed out to the NRC later this week.

Thank you for your time.

Sincerely,

LT

5/2/2005

Enclosure 3

Hall, Gary L 1LT MACH

From: Orysia Masnyk Bailey [OMM@nrc.gov]
Sent: Wednesday, March 09, 2005 7:33 AM
To: Hall, Gary L 1LT MACH
Subject: RE: Removal of room from license #39-14873-01

Sealed sources would only be a problem if leak tests showed that there was a problem. For a nuclear medicine department a regular weekly survey should suffice. You might want to throw in some extra locations for swipes and measurements. Also to be really thorough do some biased measurements. Look where you would expect contamination to be. Instead of swiping a small area you could do some really broad swipes. The bottom line is that even if there was contamination it would decay away pretty soon due to the short half life involved. Send your survey results and description of the survey done in when you amend your license. If you need to discuss this please call me 404.562.4739. I will be in this week March 7-11.

>>> "Hall, Gary L 1LT MACH" <Gary.Hall@se.amedd.army.mil> 02/27/05
 >>> 08:56AM >>>

Good Morning Ms. Bailey:

Thank you for the reply. Are you referring to the sealed check sources in my office or are you referring to the isotopes used in nuclear medicine or both? For example, the little button-type check sources used for instrument constancy checks is Cs-137, which, obviously, has a 30.17 year half life. Nuclear medicine, on the other hand, doesn't use any isotope with a half life > 8.04 days (I-131); the last in-house I-131 therapy was performed in August 2004.

Please advise.

Sincerely,
 Gary L. Hall

From: Orysia Masnyk Bailey [mailto:OMM@nrc.gov]
Sent: Fri 2/25/2005 6:43 PM
To: Hall, Gary L 1LT MACH
Subject: Re: Removal of room from license #39-14873-01

What isotopes were used? Anything with a half life > 120 days?

>>> "Hall, Gary L 1LT MACH" <Gary.Hall@se.amedd.army.mil> 02/24/05 10:22AM >>>
 Dear Ms. Bailey:

My office is scheduled to be moved in the near future. The new location, room 1016, has already been added to the license. In my current room, the one that you visited last October, I only have sealed check sources and my autogamma for running swipes from nuclear medicine. Everything in my room (MS Word diagram attached) is going to the new location. In your opinion, would a regular close-out type survey of the floor and the adjacent wall in the lab area be adequate for the NRC?

The hospital is renovating the eleventh floor. All parties concerned are fully aware that no renovation of my room (room 1118) occurs until the NRC releases the room for unrestricted use.

Thank you for your time.

Sincerely,

Gary L. Hall

Moncrief Army Community Hospital

4500 Stuart Street

Fort Jackson, SC 29207

(803) 751-4552/2207

This is to acknowledge the receipt of your letter/application dated

5/3/2005, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment 39-14873-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 136967.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

: Program Code: 02120
: Status Code: 0
: Fee Category: EX 7C
: Exp. Date: 20111231
: Fee Comments: _____
: Decom Fin Assur Reqd: N
:.....

LICENSE FEE TRANSMITTAL

A. REGION

I

1. APPLICATION ATTACHED

Applicant/Licensee: ARMY, DEPARTMENT OF THE
Received Date: 20050506
Docket No: 3008195
Control No.: 136967
License No.: 39-14873-01
Action Type: Amendment

2. FEE ATTACHED

Amount: /
Check No.: /

3. COMMENTS

Signed *Libraa Junod*
Date 5/10/2005

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /___/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:
Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____