



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

REPLY TO
ATTENTION OF

MCXL-MR

34-14873-01
03008195

J-3

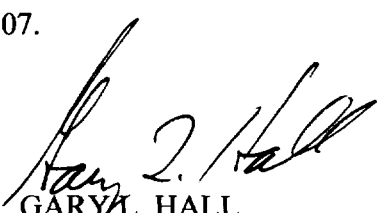
6 May 2005

MEMORANDUM FOR Headquarters, DDEAMC, ATTN: MCHF-LOG-HP (MAJ Cooper),
Fort Gordon, GA, 30905-5860

SUBJECT: NRC License Amendment

1. Enclosed is the original NRC license amendment requesting to the removal of room 1118 (11-100) as a radiation area. This original document needs to go forward to the NRC.
2. Point of contact is 1LT Hall at (803) 751-2207.

Encl
as


GARY L. HALL
1LT, MS
Chief, Health Physics

05 MAY 16 11:52

RECEIVED
REGION 1

137056
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 3, 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:

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,

A handwritten signature in black ink, reading "James M. Baunchalk, M.D.", is positioned above the printed name.

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

Enclosure



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

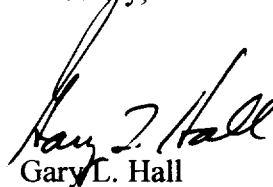
- | | |
|-----------------------|------------|
| 6) Xenon 133 (Xe-133) | 5.245 days |
| 7) Iodine 131 (I-131) | 8.04 days |

- 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:

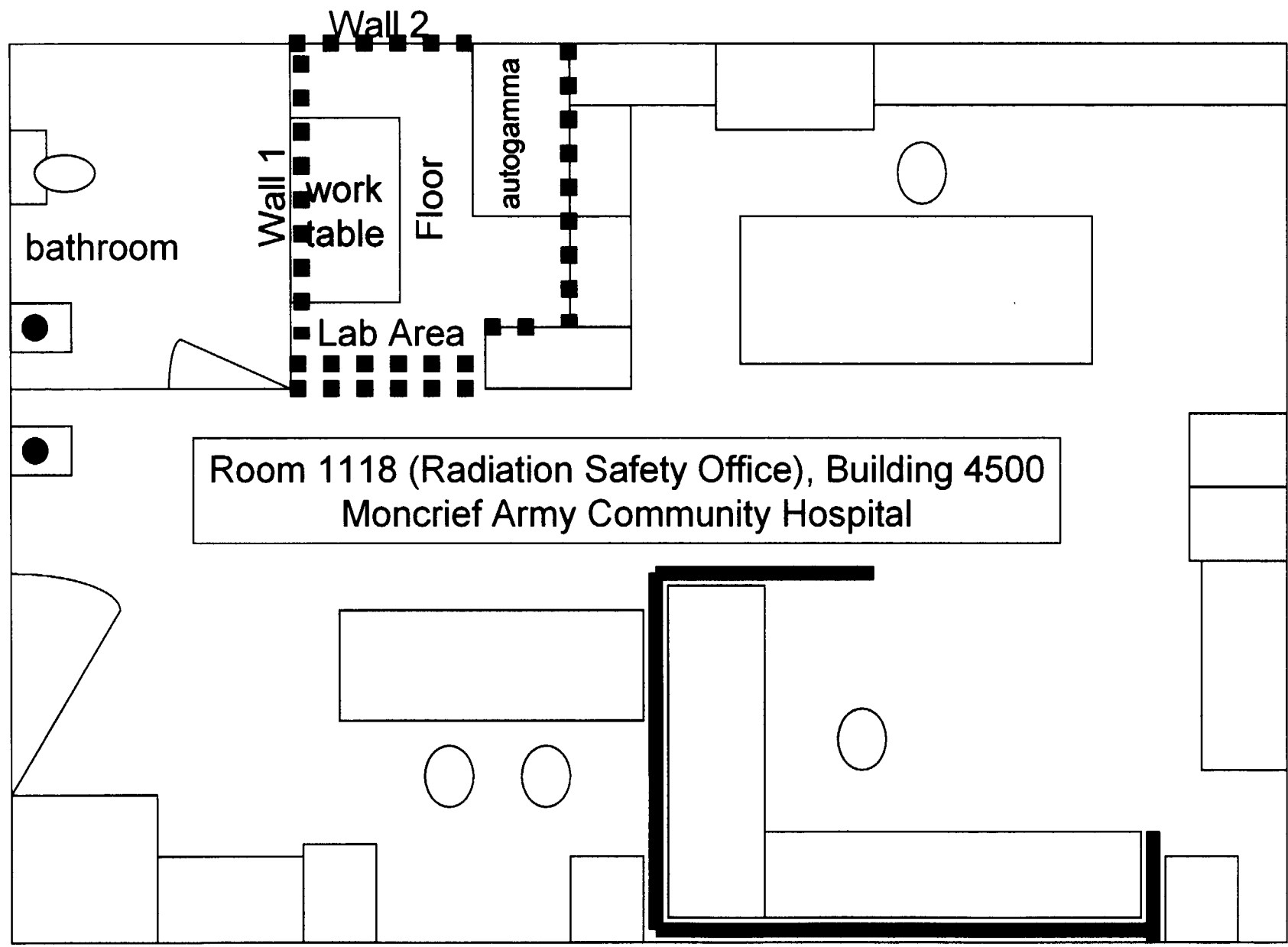
Telephone: (803) 751-4552/2207
Email: gary.hall@se.amedd.army.mil
Mail: Commander
4500 Stuart Street
ATTN: Preventive Medicine Department, Health Physics Section
Columbia, South Carolina 20207

Sincerely,



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

Enclosures



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:

Ray Z. Hall

Enclosure 2

MDA Worksheet

Date: 25 April 2005

CHANNEL	ISOTOPE	Efficiency	TRIGGER LEVEL (CPM)	ENERGY	½ LIFE
A	Tl201	62%	124/1240	60-80 E	74 h
A	Ga67	68%	136/ 1360	93	79.2 h
B	Tc99	78%	156/ 1560	140	6.049 h
B	I123	69%	138/ 1380	159	13.3h
B	Co57	77%	154/ 1540	122	270 d
C	In111	55%	110/ 1100	247	2.84 d
C	I131	38%	76/ 760	364	8.14 d

$$1.35 + 3.29\sqrt{\text{bkg}} \cdot .6 = \text{LLD}(\text{cpm})$$

$$\text{MDA(dpm)} = \frac{\text{LLD(cpm)}}{\text{Counting Efficiency}}$$

MDA CALCULATION BY CHANNEL

	Background	LLD
	CPM	CPM
Channel-A	40.5	17.6
Channel-B	35.0	16.4
Channel-C	88.7	24.4

RESURVEY

MDA CALCULATION BY CHANNEL

	Background	LLD
	CPM	CPM
Channel-A		
Channel-B		
Channel-C		

Survey Summary

[illegible]

MONCRIEF ARMY COMMUNITY HOSPITAL

X-RESOLUTION(1-129): 23.7

CALIBRATION HIGH VOLTAGE: 1371

CHI SQUARE (99% CONFIDENCE RANGE = 7.63 - 36.19):

Counts:

Run # 1 - 4	33364	33191	33497	33709
Run # 5 - 8	33626	33567	33510	33114
Run # 9 - 12	33314	33224	33399	33070
Run #13 - 16	33443	33354	33567	33056
Run #17 - 20	33372	33422	33316	33178

Chi Square	Mean	Std Dev	XCV
19.51	33390	165.2	0.55

BACKGROUND (15 - 3000 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: 5.0 FLAG
 %Spillup: 0.00
 %Spilldown: 0.00
 Screening: OFF

	Window A		Window B		Window C
Nuclide:	MAN	15 - 100 keV	MAN	100 - 200 keV	MAN
					200 - 650 keV
Bkg:	40.5		35.0		88.7
Sigma:	0.00		0.00		0.00
LCR:	0		0		0
Half Life(hours):	0.00		0.00		
Multiplier:	1.0000				
%CV Flag Limit:	0.00		0.00		

S#	TIME	A:CPM	B:CPM	C:CPM
1	2.00	0.0	0.0	0.0
2	2.00	0.0	0.0	11.8
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

Protocol #:10

weekly swipes

User :

S#	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

Protocol #:10

weekly swipes

User :

S#	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	2.5	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		
	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									
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 Number									
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		
	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									
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		
	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									
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		
	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									
55	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 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									
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	0.62	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		
	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									
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		
	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									
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	2.90	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	15.26

	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)
	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									
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		
	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									
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		
	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									
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

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

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

5/6/2005, 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** 137056.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN: : (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
License Fee Management Branch, ARM : Program Code: 02120
and : Status Code: 0
Regional Licensing Sections : Fee Category: EX 7C
: Exp. Date: 20111231
: Fee Comments: _____
: Decom Fin Assur Req'd: N
: ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
Applicant/Licensee: ARMY, DEPARTMENT OF THE
Received Date: 20050516
Docket No: 3008195
Control No.: 137056
License No.: 39-14873-01
Action Type: Amendment

2. FEE ATTACHED
Amount: /
Check No.: /

3. COMMENTS

Signed *Rebecca J. J. J.*
Date 5/19/05

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 _____