



DEPARTMENT OF THE ARMY
WILLIAM BEAUMONT ARMY MEDICAL CENTER
5005 N. PIEDRAS ST.
EL PASO, TX 79920-5001

27 February 2012

RECEIVED

MAR 26 2012

DNMS

Health Physics Office

US Nuclear Regulatory Commission, Region IV
Nuclear Materials Licensing Section
ATTN: Ms. Rachel S. Bowder
Arlington, TX 76011-8064

Reference: Nuclear Regulatory Commission Materials License 42-05255-07, William Beaumont Army Medical Center, El Paso, Texas 79920-5001.

Dear Sir or Madam:

Request amendment of the referenced by-product materials license to remove the listing of management representative by name. NUREG 1556, volume 11, states on page C-4 that members of the Radiation Control Committee should be identified by position title rather than by name. Request replacement of COL Bruce Adams as Chairperson of the Radiation Control Committee (license condition 11A) with the title "Deputy Commander for Clinical Services". It is understood that the Chairperson cannot also be an authorized user of radioactive material. This will eliminate the need for administrative license amendments when a new Deputy Commander for Clinical Services is appointed. This request was approved by the Radiation Safety Committee.

Please refer any questions to CPT Kent A. Fisher at (915) 742-3161.

Sincerely,

Bruce D. Adams
Colonel, U.S. Army
Deputy Commander for Clinical Services

Enclosure

5 7 7 2 1 2

058-01

ROUTING AND TRANSMITTAL SLIP				Date 27 Feb 12	
TO: (Name, office symbol, room number, Agency/Post)				Initials	Date
1. DCCS					
2.					
3.					
4.					
5.					
☐	Action	☐	File	☐	Note and Return
☐	Approval	☐	For Clearance	☐	Per Conversation
☐	As Requested	☐	For Correction	☐	Prepare Reply
☐	Circulate	☐	For Your Information	☐	See Me
☐	Comment	☐	Investigate	☒	Signature
☐	Coordination	☐	Justify	☐	

REMARKS**NRC Amendment (Change of DCCS)**

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances and similar actions

FROM: (Name, org., symbol, Agency/Post)	Room No. - Bldg. 7777 - 12036 (12 th Floor)
CPT Kent A Fisher	Phone No. 742-3161

5041-102

OPTIONAL FORM 41 (Rev. 7-76)

*U.S.G.P.O. 1992 312-070/40022

Prescribed by GSA

FPMR (41 CFR) 101-11.206

577212



DEPARTMENT OF THE ARMY
WILLIAM BEAUMONT ARMY MEDICAL CENTER
5005 N. PIEDRAS ST.
EL PASO, TX 79920-5001

17 February 2012

RECEIVED

MAR 26 2012

DNMS

Health Physics Office

US Nuclear Regulatory Commission, Region IV
Nuclear Materials Licensing Section
ATTN: Ms. Rachel S. Bowder
Arlington, TX 76011-8064

Reference: Nuclear Regulatory Commission Materials License 42-05255-07, William Beaumont Army Medical Center, El Paso, Texas 79920-5001.

Dear Sir or Madam:

Request amendment of the referenced by-product materials license to remove rooms 216, 217, and 202 of Building 7304 from the license and application. These three rooms were vacated by the Health Physics Office and will be turned over for reassignment upon approval of this amendment request. Room 12010, 12th Floor, Building 7777 was vacated by the Health Physics Office and taken over by Nuclear Medicine to be used as an office. Room 12036 was a Nuclear Medicine camera room but has been converted to office space for the Health Physics Office.

Room 12010, Building 7777, is a tiled office space that was also used as a counting laboratory. The Packard Cobra gamma counter was kept in this room and it was used to evaluate weekly swipes of Nuclear Medicine and, as needed, swipes of the patient room on the 9th floor when used for I-131 therapies. A few sealed sources were kept with the gamma counter for QC purposes. Other than the sealed sources, all radioactive material was swipes of Nuclear Medicine (Tc-99m, Tl-201, In-111, I-123, I-131, F-18) which were evaluated in the gamma counter. The room was surveyed weekly and is known to be free of contamination.

Room 12036, Building 7777, was a Nuclear Medicine camera room. In February 2011 when the 3rd Floor Nuclear Medicine expansion opened, the camera in room 12036 was removed and installed on the 3rd floor. As a result, room 12036 has not been used for any radioactive materials activities for about one year. Room 12036 has been surveyed every week (per NRC regulation) since it was approved as a use area and is known to be clear of contamination. The room was renovated in December 2011 and Health Physics occupied the room in January 2012. The Beckman Coulter liquid scintillation counter and Packard Cobra gamma counter are located in the room along the back wall (west wall). A small area around the counters has been cordoned off with bookshelves and designated the new counting laboratory and marked as such with signage.

Rooms 202 and 217, Building 7304, are carpeted offices. The rooms are listed on the license application but were never used for radioactive materials use or storage.

577212

Room 216, Building 7304, was the Health Physics counting laboratory. Radiation detection instrumentation was stored in this room to include associated Cs-137 check sources. The Beckman Coulter liquid scintillation counter was maintained in this room and swipe samples of H-3 were evaluated with the machine from about 1987 to 2009. Other sealed sources and Army commodities were also stored in the room to be used as training aides by the Fort Bliss Radiation Safety Officer. Many of these commodities and sealed sources were stored in a cabinet along the north wall. This cabinet is permanent and was not removed from the room. Other sealed sources and detection equipment were stored in another cabinet along the east wall. This second cabinet was moved to room 12036 in Building 7777. All sources stored or used in this room were sealed sources, leak tested as required, except swipes of H-3 which were evaluated in the liquid scintillation counter. When it was actively being used as a counting laboratory, the room was surveyed weekly and known to be free of contamination. Even given that information, the Health Physics Office conducted decommissioning of the laboratory to ensure no contamination or check sources were accidentally left behind. The decommissioning activities are described below.

On 25 January 2012, CPT Kent Fisher surveyed the walls, cabinets, and tile floor (each 1 ft x 1 ft tile) of room 216, Building 7304, with a Ludlum 14C, SN 132019 Cal Due: 12 Feb 2012, pancake probe, set to its most sensitive setting. CPT Fisher also used an autoscaling Invision 451 ion chamber, SN 1368 Cal Due: 27 Sep 2012. No readings were obtained above background.

On 25 January 2012, CPT Kent Fisher and SPC Myomyo San took swipes of room 216, Building 7304, with cotton swabs to be evaluated in the Packard Cobra gamma counter, SN 405945. The floor and counter top surfaces were divided into 1 ft x 1 ft squares (each tile). Every other square and every other column was swiped. Counter tops were swiped as if they were part of the grid pattern. Nine swipes of each wall were taken in a similar grid pattern. Each wall was divided into three columns and three rows. Two swipes were taken in the sink and three swipes were taken inside the permanent cabinet which had been used to store sealed sources and army commodities.

On 10 February 2012, CPT Kent Fisher and SSG John Russell took swipes of room 216, Building 7304, with Atlantic Nuclear MS-24D swipes (dissolvable LSC swipes) to be evaluated in the Beckman Coulter liquid scintillation counter, SN 7071411. Ultima Gold liquid scintillation counting liquid with an expiration of June 2013 was used. The floor and counter top surfaces were divided into 1 ft x 1 ft squares (each tile). Every other square and every other column was swiped. Counter tops were swiped as if they were part of the grid pattern. Nine swipes of each wall were taken in a similar grid pattern. Each wall was divided into three columns and three rows. Two swipes were taken in the sink and three swipes were taken inside the permanent cabinet which had been used to store sealed sources and Army commodities.

The decommissioning documentation is enclosed.

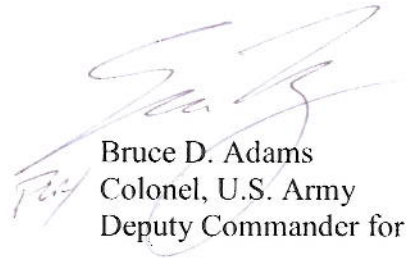
This request was approved by the Radiation Safety Committee.

577212

Please refer any questions to CPT Kent A. Fisher at (915) 742-3161.

Sincerely,

Enclosure

A handwritten signature in purple ink, appearing to read "Bruce D. Adams", is written over a circular official stamp. The stamp contains the text "Colonel, U.S. Army" and "Deputy Commander for Clinical Services".

Bruce D. Adams
Colonel, U.S. Army
Deputy Commander for Clinical Services

Gamma Counter-- Packard Cobra II s/n 405945					
Sample ID		Window A 15-2000 keV cpm			
	1	295	1 Bkgd	302.7	Detector 1 Avg Bkgd Window A
Detector 1	2	300	1 Bkgd	83.6	1A LLD
	3	313	1 Bkgd	386.3	1A LLD + 1A Bkgd

Liquid Scintillation Counter-- Packard Tri-Carb 2500 TR s/n 7071411				
Sample ID	H3	C14	Wide	
BKG 1	19.31	4.83	24.14	Bkgd
BKG 2	20.67	8.67	29.33	
BKG 3	20	8	28	Bkgd
	20.0	7.2	27.2	Average Bkgd cpm
counting time (min)	1	1	1	
	23.5	15.2	26.9	LLD = $2.71 + 4.65(\text{Bkgd}(\text{cpm})/\text{count time})^{.5}$
	43.5	22.3	54.1	LLD + Avg Bkgd

$$MDL = 2.71 + 4.65 \sqrt{\frac{\text{BKG}(\text{cpm})}{\text{Counttime}}}$$

Technician:

CPT Fisher

Date: 25 Jan 2012

Model: Ludlum 14C

SN: 132019

Cal Due: 12 Feb 12

Constancy: ✓

BKG: 0-100 cpm

Survey Results



Model: Invision (Fluke/Victoreen) 4151

SN: 1368

Cal Due: 27 Sep 12

Constancy: ✓

BKG: 15-40 nR/hr

RPO: W. Fisher

Date: 25 Jan 2012

Swipes for Packard Cobra

70
67
66
65

101 Sink
102 Drain

HP TECHS
217

cupboard
where materials stored

8	9	17	33	40	44	75	76
7	10	32	34	47	50	53	54
6	11	30	35	40	51	52	57
5	12	20	25	38	44	50	51
4	13	22	27	39	42	55	56
3	14	23	26	40	41	57	58
2	15	24	25	41	42	58	59
1	16	25	26	42	43	59	60

89
90
91

86
87
88

Technician: SPC San

Date: 25 Jan 2012

CHIEF
HEALTH PHYSICS
202

RPO: CPT Fisher

Date: 25 Jan 2012

22

Sample ID	Gross cpm/100 cm ²	Avg bkgd cpm	Net cpm/100 cm ² (Gross cpm - Avg bkgd cpm)	LLD	> or < LLD
1	302.50	302.67	-0.17	83.61	<
2	283.50	302.67	-19.17	83.61	<
3	318.00	302.67	15.33	83.61	<
4	309.50	302.67	6.83	83.61	<
5	289.50	302.67	-13.17	83.61	<
6	304.00	302.67	1.33	83.61	<
7	310.00	302.67	7.33	83.61	<
8	311.00	302.67	8.33	83.61	<
9	280.00	302.67	-22.67	83.61	<
10	272.00	302.67	-30.67	83.61	<
11	312.00	302.67	9.33	83.61	<
12	303.50	302.67	0.83	83.61	<
13	295.50	302.67	-7.17	83.61	<
14	297.50	302.67	-5.17	83.61	<
15	289.00	302.67	-13.67	83.61	<
16	299.50	302.67	-3.17	83.61	<
17	296.50	302.67	-6.17	83.61	<
18	303.00	302.67	0.33	83.61	<
19	315.50	302.67	12.83	83.61	<
20	321.00	302.67	18.33	83.61	<
21	307.50	302.67	4.83	83.61	<
22	288.50	302.67	-14.17	83.61	<
23	297.50	302.67	-5.17	83.61	<
24	303.00	302.67	0.33	83.61	<
25	295.00	302.67	-7.67	83.61	<
26	311.00	302.67	8.33	83.61	<
27	301.50	302.67	-1.17	83.61	<
28	306.00	302.67	3.33	83.61	<
29	335.00	302.67	32.33	83.61	<
30	314.50	302.67	11.83	83.61	<
31	314.50	302.67	11.83	83.61	<
32	300.50	302.67	-2.17	83.61	<
33	296.50	302.67	-6.17	83.61	<
34	302.50	302.67	-0.17	83.61	<
35	286.50	302.67	-16.17	83.61	<
36	304.50	302.67	1.83	83.61	<
37	313.50	302.67	10.83	83.61	<
38	294.50	302.67	-8.17	83.61	<
39	315.00	302.67	12.33	83.61	<
40	280.50	302.67	-22.17	83.61	<
41	309.00	302.67	6.33	83.61	<
42	311.00	302.67	8.33	83.61	<
43	290.50	302.67	-12.17	83.61	<
44	297.00	302.67	-5.67	83.61	<
45	301.00	302.67	-1.67	83.61	<
46	319.00	302.67	16.33	83.61	<
47	317.00	302.67	14.33	83.61	<
48	296.00	302.67	-6.67	83.61	<
49	311.50	302.67	8.83	83.61	<
50	297.00	302.67	-5.67	83.61	<
51	288.00	302.67	-14.67	83.61	<
52	307.00	302.67	4.33	83.61	<
53	294.00	302.67	-8.67	83.61	<
54	307.00	302.67	4.33	83.61	<

577212

55	320.50	302.67	17.83	83.61	<
56	302.50	302.67	-0.17	83.61	<
57	302.00	302.67	-0.67	83.61	<
58	308.50	302.67	5.83	83.61	<
59	332.00	302.67	29.33	83.61	<
60	311.00	302.67	8.33	83.61	<
61	300.50	302.67	-2.17	83.61	<
62	313.00	302.67	10.33	83.61	<
63	320.00	302.67	17.33	83.61	<
64	307.50	302.67	4.83	83.61	<
65	293.50	302.67	-9.17	83.61	<
66	307.50	302.67	4.83	83.61	<
67	292.50	302.67	-10.17	83.61	<
68	304.00	302.67	1.33	83.61	<
69	331.50	302.67	28.83	83.61	<
70	290.50	302.67	-12.17	83.61	<
71	318.50	302.67	15.83	83.61	<
72	296.00	302.67	-6.67	83.61	<
73	296.00	302.67	-6.67	83.61	<
74	309.50	302.67	6.83	83.61	<
75	303.50	302.67	0.83	83.61	<
76	313.50	302.67	10.83	83.61	<
77	310.00	302.67	7.33	83.61	<
78	301.50	302.67	-1.17	83.61	<
79	294.00	302.67	-8.67	83.61	<
80	322.50	302.67	19.83	83.61	<
81	311.50	302.67	8.83	83.61	<
82	312.00	302.67	9.33	83.61	<
83	314.50	302.67	11.83	83.61	<
84	297.00	302.67	-5.67	83.61	<
85	301.00	302.67	-1.67	83.61	<
86	293.00	302.67	-9.67	83.61	<
87	300.50	302.67	-2.17	83.61	<
88	288.00	302.67	-14.67	83.61	<
89	311.00	302.67	8.33	83.61	<
90	324.50	302.67	21.83	83.61	<
91	308.50	302.67	5.83	83.61	<
92	303.00	302.67	0.33	83.61	<
93	296.50	302.67	-6.17	83.61	<
94	307.50	302.67	4.83	83.61	<
95	312.50	302.67	9.83	83.61	<
96	308.50	302.67	5.83	83.61	<
97	308.50	302.67	5.83	83.61	<
98	314.00	302.67	11.33	83.61	<
99	300.00	302.67	-2.67	83.61	<
100	305.50	302.67	2.83	83.61	<
101	295.50	302.67	-7.17	83.61	<
102	318.50	302.67	15.83	83.61	<
103	294.00	302.67	-8.67	83.61	<
104	305.50	302.67	2.83	83.61	<
105	310.00	302.67	7.33	83.61	<

Swipes for Beckman-Coulter LSC

96	95	94	8		23		38		43			
			7	9		24		39				54
			6	10		25		40				55
			5	11		26		41				56
			4	12		27	EA 35		42			57
			3	13		28	21 34		43			58
			2	14		29			44			59
			1	15		30			45			60
				16			31		46			

70 71 72

97, 98, 99
Cabinet

73 74 75

76 77 78

HP TECHS
| 217 |

CHIEF
HEALTH PHYSICS
| 202 |

Technician: CPT Fisher/SSG Russell

Date: 10 Feb 2012

RPO:

Date: 10 Feb 2012

1577212

Sample ID	"A" Gross cpm/100 cm ²	"B" Gross cpm/100 cm ²	"C" Gross cpm/100 cm ²	"A" Avg bkgd cpm	"B" Avg bkgd cpm	"C" Avg bkgd cpm	"A" Net cpm/100 cm ² (Gross cpm - Avg bkgd cpm)	"B" Net cpm/100 cm ² (Gross cpm - Avg bkgd cpm)	"C" Net cpm/100 cm ² (Gross cpm - Avg bkgd cpm)	"A" LLD	"B" LLD	"C" LLD	"A" > or < LLD	"B" > or < LLD	"C" > or < LLD
1	8.00	7.00	24.00	19.99	7.17	27.16	-11.99	-0.17	-3.16	23.50	15.16	26.94	<	<	<
2	14.00	9.00	31.00	19.99	7.17	27.16	-5.99	1.83	3.84	23.50	15.16	26.94	<	<	<
3	13.00	6.00	28.00	19.99	7.17	27.16	-6.99	-1.17	0.84	23.50	15.16	26.94	<	<	<
4	13.00	11.00	30.00	19.99	7.17	27.16	-6.99	3.83	2.84	23.50	15.16	26.94	<	<	<
5	18.00	11.00	38.00	19.99	7.17	27.16	-1.99	3.83	10.84	23.50	15.16	26.94	<	<	<
6	11.00	9.00	35.00	19.99	7.17	27.16	-8.99	1.83	7.84	23.50	15.16	26.94	<	<	<
7	14.00	9.00	35.00	19.99	7.17	27.16	-5.99	1.83	7.84	23.50	15.16	26.94	<	<	<
8	10.00	15.00	38.00	19.99	7.17	27.16	-9.99	7.83	10.84	23.50	15.16	26.94	<	<	<
9	16.00	13.00	40.00	19.99	7.17	27.16	-3.99	5.83	12.84	23.50	15.16	26.94	<	<	<
10	11.00	9.00	31.00	19.99	7.17	27.16	-8.99	1.83	3.84	23.50	15.16	26.94	<	<	<
11	14.00	5.00	38.00	19.99	7.17	27.16	-5.99	-2.17	10.84	23.50	15.16	26.94	<	<	<
12	13.00	9.00	29.00	19.99	7.17	27.16	-6.99	1.83	1.84	23.50	15.16	26.94	<	<	<
13	10.00	9.00	31.00	19.99	7.17	27.16	-9.99	1.83	3.84	23.50	15.16	26.94	<	<	<
14	18.00	8.00	41.00	19.99	7.17	27.16	-1.99	0.83	13.84	23.50	15.16	26.94	<	<	<
15	11.00	4.00	29.00	19.99	7.17	27.16	-8.99	-3.17	1.84	23.50	15.16	26.94	<	<	<
16	12.00	7.00	32.00	19.99	7.17	27.16	-7.99	-0.17	4.84	23.50	15.16	26.94	<	<	<
17	19.00	9.00	37.00	19.99	7.17	27.16	-0.99	1.83	9.84	23.50	15.16	26.94	<	<	<
18	11.00	4.00	25.00	19.99	7.17	27.16	-8.99	-3.17	-2.16	23.50	15.16	26.94	<	<	<
19	15.00	10.00	35.00	19.99	7.17	27.16	-4.99	2.83	7.84	23.50	15.16	26.94	<	<	<
20	18.00	10.00	39.00	19.99	7.17	27.16	-1.99	2.83	11.84	23.50	15.16	26.94	<	<	<
21	13.00	8.00	33.00	19.99	7.17	27.16	-6.99	0.83	5.84	23.50	15.16	26.94	<	<	<
22	10.00	10.00	32.00	19.99	7.17	27.16	-9.99	2.83	4.84	23.50	15.16	26.94	<	<	<
23	14.00	4.00	24.00	19.99	7.17	27.16	-5.99	-3.17	-3.16	23.50	15.16	26.94	<	<	<
24	14.00	12.00	35.00	19.99	7.17	27.16	-5.99	4.83	7.84	23.50	15.16	26.94	<	<	<
25	21.00	9.00	41.00	19.99	7.17	27.16	1.01	1.83	13.84	23.50	15.16	26.94	<	<	<
26	16.00	6.00	33.00	19.99	7.17	27.16	-3.99	-1.17	5.84	23.50	15.16	26.94	<	<	<
27	13.00	9.00	32.00	19.99	7.17	27.16	-6.99	1.83	4.84	23.50	15.16	26.94	<	<	<
28	10.00	13.00	38.00	19.99	7.17	27.16	-9.99	5.83	10.84	23.50	15.16	26.94	<	<	<
29	16.00	5.00	29.00	19.99	7.17	27.16	-3.99	-2.17	1.84	23.50	15.16	26.94	<	<	<
30	14.00	5.00	27.00	19.99	7.17	27.16	-5.99	-2.17	-0.16	23.50	15.16	26.94	<	<	<
31	17.00	6.00	37.00	19.99	7.17	27.16	-2.99	-1.17	9.84	23.50	15.16	26.94	<	<	<
32	15.00	10.00	36.00	19.99	7.17	27.16	-4.99	2.83	8.84	23.50	15.16	26.94	<	<	<
33	21.00	5.00	37.00	19.99	7.17	27.16	1.01	-2.17	9.84	23.50	15.16	26.94	<	<	<
34	23.00	14.00	46.00	19.99	7.17	27.16	3.01	6.83	18.84	23.50	15.16	26.94	<	<	<
35	11.00	15.00	37.00	19.99	7.17	27.16	-8.99	7.83	9.84	23.50	15.16	26.94	<	<	<
36	13.00	9.00	31.00	19.99	7.17	27.16	-6.99	1.83	3.84	23.50	15.16	26.94	<	<	<
37	15.00	15.00	45.00	19.99	7.17	27.16	-4.99	7.83	17.84	23.50	15.16	26.94	<	<	<
38	17.00	7.00	33.00	19.99	7.17	27.16	-2.99	-0.17	5.84	23.50	15.16	26.94	<	<	<
39	15.00	8.00	37.00	19.99	7.17	27.16	-4.99	0.83	9.84	23.50	15.16	26.94	<	<	<

40	10.00	10.00	32.00	19.99	7.17	27.16	-9.99	2.83	4.84	23.50	15.16	26.94	<	<	<
41	14.00	4.00	23.00	19.99	7.17	27.16	-5.99	-3.17	-4.16	23.50	15.16	26.94	<	<	<
42	14.00	8.00	30.00	19.99	7.17	27.16	-5.99	0.83	2.84	23.50	15.16	26.94	<	<	<
43	13.00	7.00	24.00	19.99	7.17	27.16	-6.99	-0.17	-3.16	23.50	15.16	26.94	<	<	<
44	14.00	7.00	32.00	19.99	7.17	27.16	-5.99	-0.17	4.84	23.50	15.16	26.94	<	<	<
45	9.00	11.00	25.00	19.99	7.17	27.16	-10.99	3.83	-2.16	23.50	15.16	26.94	<	<	<
46	14.00	9.00	38.00	19.99	7.17	27.16	-5.99	1.83	10.84	23.50	15.16	26.94	<	<	<
47	19.00	8.00	38.00	19.99	7.17	27.16	-0.99	0.83	10.84	23.50	15.16	26.94	<	<	<
48	19.00	9.00	36.00	19.99	7.17	27.16	-0.99	1.83	8.84	23.50	15.16	26.94	<	<	<
49	10.00	8.00	26.00	19.99	7.17	27.16	-9.99	0.83	-1.16	23.50	15.16	26.94	<	<	<
50	16.00	9.00	43.00	19.99	7.17	27.16	-3.99	1.83	15.84	23.50	15.16	26.94	<	<	<
51	14.00	11.00	36.00	19.99	7.17	27.16	-5.99	3.83	8.84	23.50	15.16	26.94	<	<	<
52	15.00	9.00	38.00	19.99	7.17	27.16	-4.99	1.83	10.84	23.50	15.16	26.94	<	<	<
53	13.00	9.00	33.00	19.99	7.17	27.16	-6.99	1.83	5.84	23.50	15.16	26.94	<	<	<
54	14.00	6.00	33.00	19.99	7.17	27.16	-5.99	-1.17	5.84	23.50	15.16	26.94	<	<	<
55	15.00	12.00	40.00	19.99	7.17	27.16	-4.99	4.83	12.84	23.50	15.16	26.94	<	<	<
56	9.00	7.00	27.00	19.99	7.17	27.16	-10.99	-0.17	-0.16	23.50	15.16	26.94	<	<	<
57	9.00	4.00	21.00	19.99	7.17	27.16	-10.99	-3.17	-6.16	23.50	15.16	26.94	<	<	<
58	11.00	15.00	41.00	19.99	7.17	27.16	-8.99	7.83	13.84	23.50	15.16	26.94	<	<	<
59	14.00	3.00	30.00	19.99	7.17	27.16	-5.99	-4.17	2.84	23.50	15.16	26.94	<	<	<
60	11.00	10.00	29.00	19.99	7.17	27.16	-8.99	2.83	1.84	23.50	15.16	26.94	<	<	<
61	15.00	10.00	37.00	19.99	7.17	27.16	-4.99	2.83	9.84	23.50	15.16	26.94	<	<	<
62	11.00	5.00	26.00	19.99	7.17	27.16	-8.99	-2.17	-1.16	23.50	15.16	26.94	<	<	<
63	13.00	6.00	33.00	19.99	7.17	27.16	-6.99	-1.17	5.84	23.50	15.16	26.94	<	<	<
64	17.00	6.00	42.00	19.99	7.17	27.16	-2.99	-1.17	14.84	23.50	15.16	26.94	<	<	<
65	10.00	8.00	27.00	19.99	7.17	27.16	-9.99	0.83	-0.16	23.50	15.16	26.94	<	<	<
66	21.00	7.00	44.00	19.99	7.17	27.16	1.01	-0.17	16.84	23.50	15.16	26.94	<	<	<
67	13.00	7.00	37.00	19.99	7.17	27.16	-6.99	-0.17	9.84	23.50	15.16	26.94	<	<	<
68	14.00	6.00	33.00	19.99	7.17	27.16	-5.99	-1.17	5.84	23.50	15.16	26.94	<	<	<
69	19.00	11.00	36.00	19.99	7.17	27.16	-0.99	3.83	8.84	23.50	15.16	26.94	<	<	<
70	9.00	7.00	25.00	19.99	7.17	27.16	-10.99	-0.17	-2.16	23.50	15.16	26.94	<	<	<
71	15.00	11.00	39.00	19.99	7.17	27.16	-4.99	3.83	11.84	23.50	15.16	26.94	<	<	<
72	15.00	4.00	28.00	19.99	7.17	27.16	-4.99	-3.17	0.84	23.50	15.16	26.94	<	<	<
73	20.00	7.00	41.00	19.99	7.17	27.16	0.01	-0.17	13.84	23.50	15.16	26.94	<	<	<
74	13.00	5.00	29.00	19.99	7.17	27.16	-6.99	-2.17	1.84	23.50	15.16	26.94	<	<	<
75	15.00	7.00	33.00	19.99	7.17	27.16	-4.99	-0.17	5.84	23.50	15.16	26.94	<	<	<
76	15.00	8.00	32.00	19.99	7.17	27.16	-4.99	0.83	4.84	23.50	15.16	26.94	<	<	<
77	8.00	9.00	27.00	19.99	7.17	27.16	-11.99	1.83	-0.16	23.50	15.16	26.94	<	<	<
78	10.00	9.00	31.00	19.99	7.17	27.16	-9.99	1.83	3.84	23.50	15.16	26.94	<	<	<
79	19.00	11.00	49.00	19.99	7.17	27.16	-0.99	3.83	21.84	23.50	15.16	26.94	<	<	<
80	21.00	7.00	33.00	19.99	7.17	27.16	1.01	-0.17	5.84	23.50	15.16	26.94	<	<	<
81	14.00	6.00	35.00	19.99	7.17	27.16	-5.99	-1.17	7.84	23.50	15.16	26.94	<	<	<
82	17.00	6.00	37.00	19.99	7.17	27.16	-2.99	-1.17	9.84	23.50	15.16	26.94	<	<	<
83	16.00	11.00	37.00	19.99	7.17	27.16	-3.99	3.83	9.84	23.50	15.16	26.94	<	<	<
84	13.00	8.00	42.00	19.99	7.17	27.16	-6.99	0.83	14.84	23.50	15.16	26.94	<	<	<
85	14.00	13.00	43.00	19.99	7.17	27.16	-5.99	5.83	15.84	23.50	15.16	26.94	<	<	<

86	13.00	8.00	38.00	19.99	7.17	27.16	-6.99	0.83	10.84	23.50	15.16	26.94	<	<	<
87	16.00	7.00	32.00	19.99	7.17	27.16	-3.99	-0.17	4.84	23.50	15.16	26.94	<	<	<
88	16.00	9.00	34.00	19.99	7.17	27.16	-3.99	1.83	6.84	23.50	15.16	26.94	<	<	<
89	11.00	14.00	36.00	19.99	7.17	27.16	-8.99	6.83	8.84	23.50	15.16	26.94	<	<	<
90	14.00	13.00	36.00	19.99	7.17	27.16	-5.99	5.83	8.84	23.50	15.16	26.94	<	<	<
91	16.00	16.00	44.00	19.99	7.17	27.16	-3.99	8.83	16.84	23.50	15.16	26.94	<	<	<
92	17.00	10.00	38.00	19.99	7.17	27.16	-2.99	2.83	10.84	23.50	15.16	26.94	<	<	<
93	16.00	9.00	34.00	19.99	7.17	27.16	-3.99	1.83	6.84	23.50	15.16	26.94	<	<	<
94	16.00	7.00	35.00	19.99	7.17	27.16	-3.99	-0.17	7.84	23.50	15.16	26.94	<	<	<
95	17.00	10.00	38.00	19.99	7.17	27.16	-2.99	2.83	10.84	23.50	15.16	26.94	<	<	<
96	16.00	7.00	39.00	19.99	7.17	27.16	-3.99	-0.17	11.84	23.50	15.16	26.94	<	<	<
97	15.00	3.00	25.00	19.99	7.17	27.16	-4.99	-4.17	-2.16	23.50	15.16	26.94	<	<	<
98	29.00	12.00	54.00	19.99	7.17	27.16	9.01	4.83	26.84	23.50	15.16	26.94	<	<	<
99	17.00	8.00	38.00	19.99	7.17	27.16	-2.99	0.83	10.84	23.50	15.16	26.94	<	<	<
100	16.00	12.00	40.00	19.99	7.17	27.16	-3.99	4.83	12.84	23.50	15.16	26.94	<	<	<
101	16.00	5.00	25.00	19.99	7.17	27.16	-3.99	-2.17	-2.16	23.50	15.16	26.94	<	<	<

5 Jan 2012 12:24

CALIBRATION REPORT

Page #1

Packard Instrument Company

RESOLUTION(Cs-137): 7.8

CALIBRATION HIGH VOLTAGE: 1556

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

Counts:

Run # 1 - 4	63767	63918	64177	63917
Run # 5 - 8	63700	63689	63632	63944
Run # 9 - 12	63824	63882	64143	64064
Run #13 - 16	63715	63680	63806	63901
Run #17 - 20	64066	63729	63679	63379

Chi Square
11.24

Mean
63831

Std Dev
194.3

%CV
0.30

BACKGROUND (15 - 2000 keV): 306.00

577212

Count Time(minutes): 2.00
 Assay Type: CPM
 Background Subtract : Manual
 Outlier: 5.0 FLAG
 Screening: OFF

Window A

Nuclide: MAN 15 - 2000 keV
 Bkg: 0.00
 Sigma: 0.00
 LCR: 0
 Half Life(hours): 0.00
 Multiplier: 1.0000
 %CV Flag Limit: 0.00

S#	A:CPM	A:%ERR	B:CPM	B:%ERR	A:ERROR	CCPM RESULT	PAT/ID
1	295.0	4.12	0.0			295.000	SAMPLE 1
2	300.0	4.08	0.0			300.000	SAMPLE 2
3	313.0	4.00	0.0			313.000	SAMPLE 3
MISSING TUBE(S)							
16	302.5	4.07	0.0			302.500	SAMPLE 16
17	283.5	4.20	0.0			283.500	SAMPLE 17
18	318.0	3.97	0.0			318.000	SAMPLE 18
19	309.5	4.02	0.0			309.500	SAMPLE 19
20	289.5	4.16	0.0			289.500	SAMPLE 20
21	304.0	4.06	0.0			304.000	SAMPLE 21
22	310.0	4.02	0.0			310.000	SAMPLE 22
23	311.0	4.01	0.0			311.000	SAMPLE 23
24	280.0	4.23	0.0			280.000	SAMPLE 24
25	272.0	4.29	0.0			272.000	SAMPLE 25
26	312.0	4.00	0.0			312.000	SAMPLE 26
27	303.5	4.06	0.0			303.500	SAMPLE 27
28	295.5	4.11	0.0			295.500	SAMPLE 28
29	297.5	4.10	0.0			297.500	SAMPLE 29
30	289.0	4.16	0.0			289.000	SAMPLE 30
31	299.5	4.09	0.0			299.500	SAMPLE 31
32	296.5	4.11	0.0			296.500	SAMPLE 32
33	303.0	4.06	0.0			303.000	SAMPLE 33
34	315.5	3.98	0.0			315.500	SAMPLE 34
MISSING TUBE(S)							
41	311.0	4.01	0.0			311.000	SAMPLE 41
42	301.5	4.07	0.0			301.500	SAMPLE 42
43	306.0	4.04	0.0			306.000	SAMPLE 43
44	335.0	3.86	0.0			335.000	SAMPLE 44
45	314.5	3.99	0.0			314.500	SAMPLE 45
46	314.5	3.99	0.0			314.500	SAMPLE 46
47	300.5	4.08	0.0			300.500	SAMPLE 47
48	296.5	4.11	0.0			296.500	SAMPLE 48
49	302.5	4.07	0.0			302.500	SAMPLE 49
50	286.5	4.18	0.0			286.500	SAMPLE 50
51	304.5	4.05	0.0			304.500	SAMPLE 51
52	313.5	3.99	0.0			313.500	SAMPLE 52

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Packard Instrument Company

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Protocol #:19

Decommissioning

User :

S#	A:CPM	A:%ERR	B:CPM	B:%ERR	A:ERROR	CCPM RESULT	PAT/ID
53	294.5	4.12	0.0			294.500	SAMPLE 53
54	315.0	3.98	0.0			315.000	SAMPLE 54
55	280.5	4.22	0.0			280.500	SAMPLE 55
56	309.0	4.02	0.0			309.000	SAMPLE 56
57	311.0	4.01	0.0			311.000	SAMPLE 57
58	290.5	4.15	0.0			290.500	SAMPLE 58
59	297.0	4.10	0.0			297.000	SAMPLE 59
60	301.0	4.08	0.0			301.000	SAMPLE 60
61	319.0	3.96	0.0			319.000	SAMPLE 61
62	317.0	3.97	0.0			317.000	SAMPLE 62
63	296.0	4.11	0.0			296.000	SAMPLE 63
64	311.5	4.01	0.0			311.500	SAMPLE 64
65	297.0	4.10	0.0			297.000	SAMPLE 65
66	288.0	4.17	0.0			288.000	SAMPLE 66
67	307.0	4.04	0.0			307.000	SAMPLE 67
68	294.0	4.12	0.0			294.000	SAMPLE 68
69	307.0	4.04	0.0			307.000	SAMPLE 69
70	320.5	3.95	0.0			320.500	SAMPLE 70
71	302.5	4.07	0.0			302.500	SAMPLE 71
72	302.0	4.07	0.0			302.000	SAMPLE 72
73	308.5	4.03	0.0			308.500	SAMPLE 73
74	332.0	3.88	0.0			332.000	SAMPLE 74
75	311.0	4.01	0.0			311.000	SAMPLE 75
76	300.5	4.08	0.0			300.500	SAMPLE 76
77	313.0	4.00	0.0			313.000	SAMPLE 77
78	320.0	3.95	0.0			320.000	SAMPLE 78
79	307.5	4.03	0.0			307.500	SAMPLE 79
80	293.5	4.13	0.0			293.500	SAMPLE 80
81	307.5	4.03	0.0			307.500	SAMPLE 81
82	292.5	4.13	0.0			292.500	SAMPLE 82
83	304.0	4.06	0.0			304.000	SAMPLE 83
84	331.5	3.88	0.0			331.500	SAMPLE 84
85	290.5	4.15	0.0			290.500	SAMPLE 85
86	318.5	3.96	0.0			318.500	SAMPLE 86
87	296.0	4.11	0.0			296.000	SAMPLE 87
88	296.0	4.11	0.0			296.000	SAMPLE 88
89	309.5	4.02	0.0			309.500	SAMPLE 89
90	303.5	4.06	0.0			303.500	SAMPLE 90
91	313.5	3.99	0.0			313.500	SAMPLE 91
92	310.0	4.02	0.0			310.000	SAMPLE 92
93	301.5	4.07	0.0			301.500	SAMPLE 93
94	294.0	4.12	0.0			294.000	SAMPLE 94
95	322.5	3.94	0.0			322.500	SAMPLE 95
96	311.5	4.01	0.0			311.500	SAMPLE 96
97	312.0	4.00	0.0			312.000	SAMPLE 97
98	314.5	3.99	0.0			314.500	SAMPLE 98
99	297.0	4.10	0.0			297.000	SAMPLE 99
100	301.0	4.08	0.0			301.000	SAMPLE 100
101	293.0	4.13	0.0			293.000	SAMPLE 101
102	300.5	4.08	0.0			300.500	SAMPLE 102
103	288.0	4.17	0.0			288.000	SAMPLE 103
104	311.0	4.01	0.0			311.000	SAMPLE 104

5 Jan 2012 19:30

Packard Instrument Company

Page #3

Protocol #:19

Decomissioning

User :

S#	A:CPM	A:%ERR	B:CPM	B:%ERR	A:ERROR	CCPM RESULT	PAT/ID
105	324.5	3.93	0.0			324.500	SAMPLE 105
106	308.5	4.03	0.0			308.500	SAMPLE 106
107	303.0	4.06	0.0			303.000	SAMPLE 107
108	296.5	4.11	0.0			296.500	SAMPLE 108
109	307.5	4.03	0.0			307.500	SAMPLE 109
110	312.5	4.00	0.0			312.500	SAMPLE 110
111	308.5	4.03	0.0			308.500	SAMPLE 111
112	308.5	4.03	0.0			308.500	SAMPLE 112
113	314.0	3.99	0.0			314.000	SAMPLE 113
114	300.0	4.08	0.0			300.000	SAMPLE 114
115	305.5	4.05	0.0			305.500	SAMPLE 115
116	295.5	4.11	0.0			295.500	SAMPLE 116
117	318.5	3.96	0.0			318.500	SAMPLE 117
118	294.0	4.12	0.0			294.000	SAMPLE 118
119	305.5	4.05	0.0			305.500	SAMPLE 119
120	310.0	4.02	0.0			310.000	SAMPLE 120

Packard Instrument Company

RESOLUTION(Cs-137): 7.7

CALIBRATION HIGH VOLTAGE: 1560

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

Counts:

Run # 1 - 4	63686	63976	63163	64033
Run # 5 - 8	63449	63415	63673	63975
Run # 9 - 12	63711	63677	63424	63814
Run #13 - 16	63687	63748	63418	63899
Run #17 - 20	63565	63636	63844	63489

Chi Square
15.23

Mean
63664

Std Dev
225.9

%CV
0.35

BACKGROUND (15 - 2000 keV): 302.86

6 Jan 2012 10:44

Packard Instrument Company

Page #1

Protocol #:19

Decommissioning

User :

Count Time(minutes): 2.00
Assay Type: CPM
Background Subtract : Manual
Outlier: 5.0 FLAG
Screening: OFF

Window A

Nuclide: MAN 15 - 2000 keV
Bkg: 0.00
Sigma: 0.00
LCR: 0
Half Life(hours): 0.00
Multiplier: 1.0000
%CV Flag Limit: 0.00

S#	A:CPM	A:%ERR	B:CPM	B:%ERR	A:ERROR	CCPM	RESULT	PAT/ID
1	296.5	4.11	0.0			296.500		SAMPLE 1
2	294.0	4.12	0.0			294.000		SAMPLE 2
3	293.5	4.13	0.0			293.500		SAMPLE 3
MISSING TUBE(S)								
5	321.0	3.95	0.0			321.000		SAMPLE 5
6	307.5	4.03	0.0			307.500		SAMPLE 6
7	288.5	4.16	0.0			288.500		SAMPLE 7
8	297.5	4.10	0.0			297.500		SAMPLE 8
9	303.0	4.06	0.0			303.000		SAMPLE 9
10	295.0	4.12	0.0			295.000		SAMPLE 10

35-40
6 missing tubes
from 1st run

INSTRUMENT CALIBRATION: Mini 13 FEB 2012 16:21
Calibration successful

PAGE: 1

ID: DECOMMISSIONING

13 FEB 2012 16:22

USER: 21 COMMENT:
PRESET TIME : 1.00
DATA CALC : AUTO DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD
COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 : OFF
TWO PHASE : NO ADC : NO CYCLE REPEATS : 1
SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0
LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0
ISOTOPE 2: 14C %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0
WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

SAM NO	POS	TIME MIN	H#	3H		14C		WIDE		3H DPM	3H EFF-1	LUMEX %	ELAPSED TIME
				CPM	%ERROR	CPM	%ERROR	CPM	%ERROR				
B1	17-1	1.45	533.3	19.31	37.80	4.83	75.59	24.14	33.81	*****	0.00	0.07	4.75
B1	17-1	INVALID SAMPLE COUNT: QUENCH TOO HIGH FOR ACCURATE AUTO DPM											
B2	17-2	1.50	536.4	20.67	35.92	8.67	55.47	29.33	30.15	*q*****	0.00	0.05	9.76
B2	17-2	INVALID SAMPLE COUNT: QUENCH TOO HIGH FOR ACCURATE AUTO DPM											
B3	17-3	1.50	536.4	20.00	36.51	8.00	57.74	28.00	30.86	*****	0.00	0.05	14.75
B3	17-3	INVALID SAMPLE COUNT: QUENCH TOO HIGH FOR ACCURATE AUTO DPM											

BLANK SAMPLE MISSING: BLANK VALUES SET TO ZERO

1	17-5	1.00	65.0	8.00	70.71	7.00	75.59	24.00	40.82	27.74	28.84	0.20	16.42
2	17-6	1.00	69.8	14.00	53.45	9.00	66.67	31.00	35.92	41.30	33.90	0.39	18.00
3	17-7	1.00	68.7	13.00	55.47	6.00	81.65	28.00	37.80	32.74	29.71	0.17	19.60
4	17-8	1.00	66.2	13.00	55.47	11.00	60.30	30.00	36.51	33.57	38.72	0.15	21.20
5	17-9	1.00	65.7	18.00	47.14	11.00	60.30	38.00	32.44	40.65	44.28	0.12	22.82
6	17-10	1.00	66.7	11.00	60.30	9.00	66.67	35.00	33.81	*****	0.00	0.13	24.40
COUNT RATE TOO LOW OR TOO COMPRESSED													
7	17-11	1.00	65.5	14.00	53.45	9.00	66.67	35.00	33.81	39.74	35.23	0.12	26.00
8	17-12	1.00	69.8	10.00	63.25	15.00	51.64	38.00	32.44	36.65	27.28	0.11	27.59
9	17-13	1.00	71.6	16.00	50.00	13.00	55.47	40.00	31.62	56.96	28.09	0.16	29.21
10	17-14	1.00	75.3	11.00	60.30	9.00	66.67	31.00	35.92	32.65	33.69	0.18	30.83
11	17-15	1.00	76.1	14.00	53.45	5.00	89.44	38.00	32.44	49.39	28.35	0.14	32.45
12	17-16	1.00	70.1	13.00	55.47	9.00	66.67	29.00	37.14	32.65	39.81	0.17	34.16
13	17-17	1.00	73.8	10.00	63.25	9.00	66.67	31.00	35.92	50.62	19.76	0.19	35.91
14	17-18	1.00	70.6	18.00	47.14	8.00	70.71	41.00	31.23	65.70	27.40	0.14	37.52
15	17-1	1.00	69.3	11.00	60.30	4.00	100.00	29.00	37.14	30.74	35.79	0.17	39.23
16	17-2	1.00	68.1	12.00	57.74	7.00	75.59	32.00	35.36	41.39	28.99	0.13	40.83
17	17-3	1.00	69.1	19.00	45.88	9.00	66.67	37.00	32.88	47.23	40.23	0.12	42.45
18	17-4	1.00	70.3	11.00	60.30	4.00	100.00	25.00	40.00	29.74	36.99	0.19	44.17
19	17-5	1.00	70.9	15.00	51.64	10.00	63.25	35.00	33.81	*****	0.00	0.12	45.78
COUNT RATE TOO LOW OR TOO COMPRESSED													
20	17-6	1.00	71.5	18.00	47.14	10.00	63.25	39.00	32.03	51.39	35.03	0.12	47.38
21	17-7	1.00	70.8	13.00	55.47	8.00	70.71	33.00	34.82	44.39	29.29	0.15	49.15
22	17-8	1.00	72.2	10.00	63.25	10.00	63.25	32.00	35.36	41.39	24.16	0.15	50.77

577212

COUNT RATE TOO LOW OR TOO COMPRESSED													
24	17-10	1.00	74.3	14.00	53.45	12.00	57.74	35.00	33.81	39.74	35.23	0.13	53.98
25	17-11	1.00	69.7	21.00	43.64	9.00	66.67	41.00	31.23	59.13	35.52	-0.76	55.75
26	17-12	1.00	66.7	16.00	50.00	6.00	81.65	33.00	34.82	46.39	34.49	0.13	57.37
27	17-13	1.00	70.2	13.00	55.47	9.00	66.67	32.00	35.36	47.96	27.11	0.14	59.09
28	17-14	1.00	67.9	10.00	63.25	13.00	55.47	38.00	32.44	49.39	20.25	0.12	60.83
29	17-15	1.00	67.5	16.00	50.00	5.00	89.44	29.00	37.14	*****	0.00	0.15	62.47
COUNT RATE TOO LOW OR TOO COMPRESSED													
30	17-16	1.00	71.1	14.00	53.45	5.00	89.44	27.00	38.49	*****	0.00	0.30	64.19
COUNT RATE TOO LOW OR TOO COMPRESSED													

PAGE: 2

SAM NO	POS	TIME MIN	HD	3H		14C		WIDE		3H DPM	3H EFF-1	LUMEX %	ELAPSED TIME
				CPM	%ERROR	CPM	%ERROR	CPM	%ERROR				
31	17-17	1.00	69.7	17.00	48.51	6.00	81.65	37.00	32.88	47.39	35.87	0.11	65.85
32	17-18	1.00	67.2	15.00	51.64	10.00	63.25	36.00	33.33	37.74	39.75	0.12	67.45
33	17-1	1.00	71.1	21.00	43.64	5.00	89.44	37.00	32.88	49.48	42.44	0.17	69.28
34	17-2	1.00	69.9	23.00	41.70	14.00	53.45	46.00	29.49	78.43	29.32	0.11	70.87
35	17-3	1.00	69.2	11.00	60.30	15.00	51.64	37.00	32.88	41.65	26.41	0.12	72.63
36	17-4	1.00	71.6	13.00	55.47	9.00	66.67	31.00	35.92	47.96	27.11	0.16	74.33
37	17-5	1.00	69.9	15.00	51.64	15.00	51.64	45.00	29.81	60.88	24.64	0.09	76.06
38	17-6	1.00	71.5	17.00	48.51	7.00	75.59	33.00	34.82	36.74	46.27	0.13	77.65
39	17-7	1.00	68.1	15.00	51.64	8.00	70.71	37.00	32.88	*****	0.00	0.11	79.38
COUNT RATE TOO LOW OR TOO COMPRESSED													
40	17-8	1.00	69.6	10.00	63.25	10.00	63.25	32.00	35.36	42.48	23.54	0.14	81.09
41	17-9	1.00	66.2	14.00	53.45	4.00	100.00	23.00	41.70	33.19	42.18	0.19	82.71
42	17-10	1.00	67.7	14.00	53.45	8.00	70.71	30.00	36.51	47.88	29.24	0.14	84.30
43	17-11	1.00	65.2	13.00	55.47	7.00	75.59	24.00	40.82	27.65	47.01	0.18	85.91
44	17-12	1.00	65.9	14.00	53.45	7.00	75.59	32.00	35.36	44.39	31.54	0.16	87.51
45	17-13	1.00	68.8	9.00	66.67	11.00	60.30	25.00	40.00	30.65	29.36	0.18	89.15
46	17-14	1.00	67.4	14.00	53.45	9.00	66.67	38.00	32.44	38.65	36.22	0.11	90.88
47	17-15	1.00	65.9	19.00	45.88	8.00	70.71	38.00	32.44	51.21	37.10	0.13	92.53
48	17-16	1.00	71.9	19.00	45.88	9.00	66.67	36.00	33.33	58.69	32.37	0.13	94.14
49	17-17	1.00	74.3	10.00	63.25	8.00	70.71	26.00	39.22	45.13	22.16	0.21	95.77
50	17-18	1.00	65.7	16.00	50.00	9.00	66.67	43.00	30.50	46.65	34.30	0.12	97.33
51	17-1	1.00	75.7	14.00	53.45	11.00	60.30	36.00	33.33	47.21	29.65	0.16	99.18
52	17-2	1.00	71.7	15.00	51.64	9.00	66.67	38.00	32.44	51.21	29.29	0.13	100.76
53	17-3	1.00	76.0	13.00	55.47	9.00	66.67	33.00	34.82	35.65	36.46	0.15	102.38
54	17-4	1.00	62.0	14.00	53.45	6.00	81.65	33.00	34.82	32.65	42.88	0.14	103.98
55	17-5	1.00	83.0	15.00	51.64	12.00	57.74	40.00	31.62	*****	0.00	0.51	105.62
COUNT RATE TOO LOW OR TOO COMPRESSED													
56	17-6	1.00	77.6	9.00	66.67	7.00	75.59	27.00	38.49	28.65	31.41	0.27	107.22
57	17-7	1.00	72.5	9.00	66.67	4.00	100.00	21.00	43.64	23.74	37.91	0.23	108.83
58	17-8	1.00	76.2	11.00	60.30	15.00	51.64	41.00	31.23	38.65	28.46	0.13	110.52
59	17-9	1.00	70.1	14.00	53.45	3.00	115.47	30.00	36.51	46.88	29.86	0.17	112.15
60	17-10	1.00	71.2	11.00	60.30	10.00	63.25	29.00	37.14	*****	0.00	0.16	113.73
COUNT RATE TOO LOW OR TOO COMPRESSED													
61	17-11	1.00	64.6	15.00	51.64	10.00	63.25	37.00	32.88	60.53	24.78	0.12	115.36
62	17-12	1.00	62.3	11.00	60.30	5.00	89.44	26.00	39.22	*****	0.00	0.17	117.06
COUNT RATE TOO LOW OR TOO COMPRESSED													
63	17-13	1.00	64.8	13.00	55.47	6.00	81.65	33.00	34.82	39.30	33.08	0.14	118.67
64	17-14	1.00	63.9	17.00	48.51	6.00	81.65	42.00	30.86	45.65	37.24	0.11	120.26
65	17-15	1.00	63.3	10.00	63.25	8.00	70.71	27.00	38.49	*****	0.00	0.21	121.90
COUNT RATE TOO LOW OR TOO COMPRESSED													
66	17-16	1.00	64.6	21.00	43.64	7.00	75.59	44.00	30.15	55.21	38.04	0.10	123.53
67	17-17	1.00	64.3	13.00	55.47	7.00	75.59	37.00	32.88	40.65	31.98	0.12	125.13
68	17-18	1.00	64.9	14.00	53.45	6.00	81.65	33.00	34.82	*****	0.00	0.12	126.84
COUNT RATE TOO LOW OR TOO COMPRESSED													
69	17-1	1.00	63.1	19.00	45.88	11.00	60.30	36.00	33.33	65.26	29.11	0.11	128.57
70	17-2	1.00	66.1	9.00	66.67	7.00	75.59	25.00	40.00	29.74	30.26	0.17	130.28
71	17-3	1.00	63.0	15.00	51.64	11.00	60.30	39.00	32.03	39.57	37.90	0.11	131.90

73	17-5	1.00	63.3	20.00	44.72	7.00	75.59	41.00	31.23	50.30	39.76	0.10	135.10
74	17-6	1.00	61.4	13.00	55.47	5.00	89.44	29.00	37.14	39.39	33.00	0.14	136.68
75	17-7	1.00	64.1	15.00	51.64	7.00	75.59	33.00	34.82	*****	0.00	0.12	138.30
COUNT RATE TOO LOW OR TOO COMPRESSED													
76	17-8	1.00	63.1	15.00	51.64	8.00	70.71	32.00	35.36	46.23	32.45	0.13	139.91
77	17-9	1.00	64.5	8.00	70.71	9.00	66.67	27.00	38.49	*****	0.00	0.16	141.53
COUNT RATE TOO LOW OR TOO COMPRESSED													
78	17-10	1.00	62.5	10.00	63.25	9.00	66.67	31.00	35.92	*****	0.00	0.13	143.15
COUNT RATE TOO LOW OR TOO COMPRESSED													
79	17-11	1.00	62.0	19.00	45.88	11.00	60.30	49.00	28.57	49.74	38.20	0.08	144.88

PAGE: 3

SAM NO	POS	TIME MIN	HF	3H		14C		WIDE		3H DPM	3H EFF-1	LUMEX %	ELAPSED TIME
				CPM	%ERROR	CPM	%ERROR	CPM	%ERROR				
80	17-12	1.00	61.7	21.00	43.64	7.00	75.59	33.00	34.82	37.65	55.77	0.13	146.49
81	17-13	1.00	62.8	14.00	53.45	6.00	81.65	35.00	33.81	35.74	39.17	0.12	148.10
82	17-14	1.00	63.3	17.00	48.51	6.00	81.65	37.00	32.88	52.88	32.15	0.11	149.73
83	17-15	1.00	64.2	16.00	50.00	11.00	60.30	37.00	32.88	*****	0.00	0.10	151.48
COUNT RATE TOO LOW OR TOO COMPRESSED													
84	17-16	1.00	63.9	13.00	55.47	8.00	70.71	42.00	30.86	40.65	31.98	0.10	153.07
85	17-17	1.00	61.3	14.00	53.45	13.00	55.47	43.00	30.50	42.65	32.82	0.10	154.68
86	17-18	1.00	67.7	13.00	55.47	8.00	70.71	38.00	32.44	43.30	30.02	0.12	156.28
87	17-1	1.00	63.4	16.00	50.00	7.00	75.59	32.00	35.36	36.65	43.65	0.14	158.00
88	17-2	1.00	61.8	16.00	50.00	9.00	66.67	34.00	34.30	51.97	30.79	0.13	159.58
89	17-3	1.00	64.0	11.00	60.30	14.00	53.45	36.00	33.33	47.39	23.21	0.13	161.20
90	17-4	1.00	63.4	14.00	53.45	13.00	55.47	36.00	33.33	37.65	37.18	0.12	162.92
91	17-5	1.00	62.2	16.00	50.00	16.00	50.00	44.00	30.15	51.30	31.19	0.10	164.57
92	17-6	1.00	62.5	17.00	48.51	10.00	63.25	38.00	32.44	41.65	40.81	0.12	166.15
93	17-7	1.00	62.3	16.00	50.00	9.00	66.67	34.00	34.30	39.65	40.35	0.11	167.77
94	17-8	1.00	61.4	16.00	50.00	7.00	75.59	35.00	33.81	39.57	40.43	0.11	169.48
95	17-9	1.00	60.9	17.00	48.51	10.00	63.25	38.00	32.44	*****	0.00	0.09	171.10
COUNT RATE TOO LOW OR TOO COMPRESSED													
96	17-10	1.00	63.1	16.00	50.00	7.00	75.59	39.00	32.03	40.65	39.36	0.10	172.71
97	17-11	1.00	67.8	15.00	51.64	3.00	115.47	25.00	40.00	39.00	37.69	0.16	174.46
98	17-12	1.00	60.0	29.00	37.14	12.00	57.74	54.00	27.22	77.62	37.36	0.07	176.19
99	17-13	1.00	59.5	17.00	48.51	8.00	70.71	38.00	32.44	*****	0.00	0.10	177.85
COUNT RATE TOO LOW OR TOO COMPRESSED													
100	17-14	1.00	64.4	16.00	50.00	12.00	57.74	40.00	31.62	46.65	34.30	0.36	179.54
101	17-15	1.00	62.7	16.00	50.00	5.00	89.44	25.00	40.00	30.74	52.05	0.55	181.15

577212

046-01

ROUTING AND TRANSMITTAL SLIP				Date 14 Feb 12	
TO: (Name, office symbol, room number, Agency/Post)				Initials	Date
1. DCCS					
2.					
3.					
4.					
5.					
☐	Action	☐	File	☐	Note and Return
☐	Approval	☐	For Clearance	☐	Per Conversation
☐	As Requested	☐	For Correction	☐	Prepare Reply
☐	Circulate	☐	For Your Information	☐	See Me
☐	Comment	☐	Investigate	☒	Signature
☐	Coordination	☐	Justify	☐	

REMARKS**NRC Amendment (Decommissioning of BLDG 7304)**

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances and similar actions

FROM: (Name, org., symbol, Agency/Post)	Room No. – Bldg. 7777 - 12036 (12 th Floor)
CPT Kent A Fisher	Phone No. 742-3161

5041-102

*U.S.G.P.O. 1992 312-070/40022

OPTIONAL FORM 41 (Rev. 7-76)

Prescribed by GSA

FPMR (41 CFR) 101-11.206

577212

Department of Preventive Medicine
MCHM DPM
iedras Street
exas 79920-5001

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

CERTIFIED MAIL™



7008 2810 0000 8156 0879

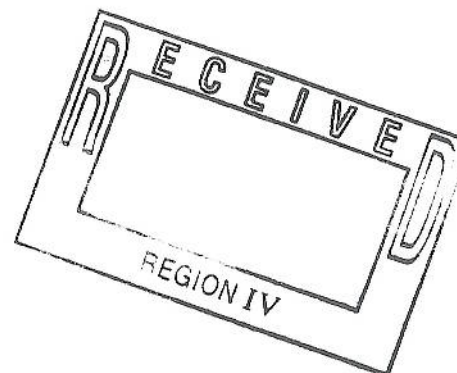


To/US Nuclear Regulatory Commission Region IV
Nuclear Materials Licensing Section
ATTN: Ms. Rachel S. Bowder
Arlington, TX-76011-8064

RECEIVED

MAR 26 2012

DNMS



1577912



DATE
03/26/2012

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Dept. of the Army
ATTN: Bruce D. Adams
Colonel, U.S. Army
Deputy Commander for Clinical Services
William Beaumont Army Medical Center

LICENSE NUMBER

42-05255-07

MAIL CONTROL NUMBER

577212

LICENSING AND/OR TECHNICAL REVIEWER

ch

This is to acknowledge the receipt of your:

☒ LETTER and/or ☐ APPLICATION DATED: 02/17/2012

The initial processing, which included an administrative review, has been performed.

☒ AMENDMENT ☐ TERMINATION ☐ NEW LICENSE ☐ RENEWAL

- ☒ There were no administrative omissions identified during our initial review.
- ☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.
- ☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV
U. S. Nuclear Regulatory Commission
DNMS/NMSB - B
1600 E. Lamar Boulevard
Arlington, TX 76011-4511
(817) 200-1103 or (817) 200-1140



DATE

03/26/2012

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Dept. of the Army
ATTN: Bruce D. Adams
Colonel, U.S. Army
Deputy Commander for Clinical Services
William Beaumont Army Medical Center

LICENSE NUMBER

42-05255-07

MAIL CONTROL NUMBER

577212

LICENSING AND/OR TECHNICAL REVIEWER

ch

This is to acknowledge the receipt of your:

☒ LETTER and/or ☐ APPLICATION DATED: 02/27/2012

The initial processing, which included an administrative review, has been performed.

☒ AMENDMENT ☐ TERMINATION ☐ NEW LICENSE ☐ RENEWAL

☒ There were no administrative omissions identified during our initial review.

☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

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A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV
U. S. Nuclear Regulatory Commission
DNMS/NMSB - B
1600 E. Lamar Boulevard
Arlington, TX 76011-4511
(817) 200-1103 or (817) 200-1140

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM LTS

Program Code: 02110
Status Code: Pending Amendment
Fee Category: 3L 7B
Exp. Date: 09/30/2013
Fee Comments:
Decom Fin Assur Reqd: Y

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ARMY, DEPARTMENT OF THE
Received Date: 03/26/2012
Docket Number: 3003260
Mail Control Number: 577212
License Number: 42-05255-07
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: _____

Date: _____

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: _____