

Radiological Survey Sheet

Job Location Pfizer Central Research Center 118/180 Page 1 of 11
 Survey Purpose Radiological Assessment Date 5/14/01
 Performed By Palm Jones Palm Jones
 (Print) (Sign)

Inst.(1) (Model/SN) Beckman LS 6500 #7069448	Inst.(2) <u>Ludlum 2241-2</u> (Model/SN) # <u>163603</u>	Inst.(3) (Model/SN)
Det. Internal (Model/SN)	Det. <u>Ludlum 43-68</u> (Model/SN) # <u>PR149613</u>	Det. (Model/SN)
Eff See LSC Printout	Eff. <u>89 C14</u>	Eff.
Type rad. β	Type rad. <u>B</u>	Type rad.
Bkgd. See LSC Printout	Bkgd. <u>300 cpm</u>	Bkgd.
Cal. Due: <u>12/01</u>	Cal. Due <u>1/20/02</u>	Cal. due

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)
1.	<u>0900</u>	<u>Floor</u>		
2.		"	1	See attached LSC Printout
3.		"	1	
4.		"	1	
5.		<u>Floor</u>	1	
6.			1	
7.			1	
8.			1	
9.			1	
10.			1	
11.			1	
12.			1	
13.			1	
14.			1	
15.			1	
16.			1	
17.		<u>door</u>	1	
18.		<u>wall</u>	1	

Radiological Survey Continuation Sheet

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Date 1/14/01

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)
19		wall		
20		"	1	See attached LSC Printout
21		top shelf	1	
22		bottom shelf	1	
23		out. shelves	1	
24		top shelf	1	
25		shelf	1	
26		bot. shelf	1	
27		mat. shelves	1	
28		top shelf	1	
29		shelf	1	
30		"	1	
31		bot. shelf	1	
32		shelf	1	
33		counter	1	
34		"	1	
35		white board	1	√ (see # 116)
36		out. drawers	1	
37		top drawer	1	
38		drawer	1	
39		"	1	
40		"	1	
41		bot. drawer	1	
42		out. drawers	1	
43		top drawer	1	
44		drawer	1	
45		"	1	
46	↓	"	1	↓

Radiological Survey Continuation Sheet

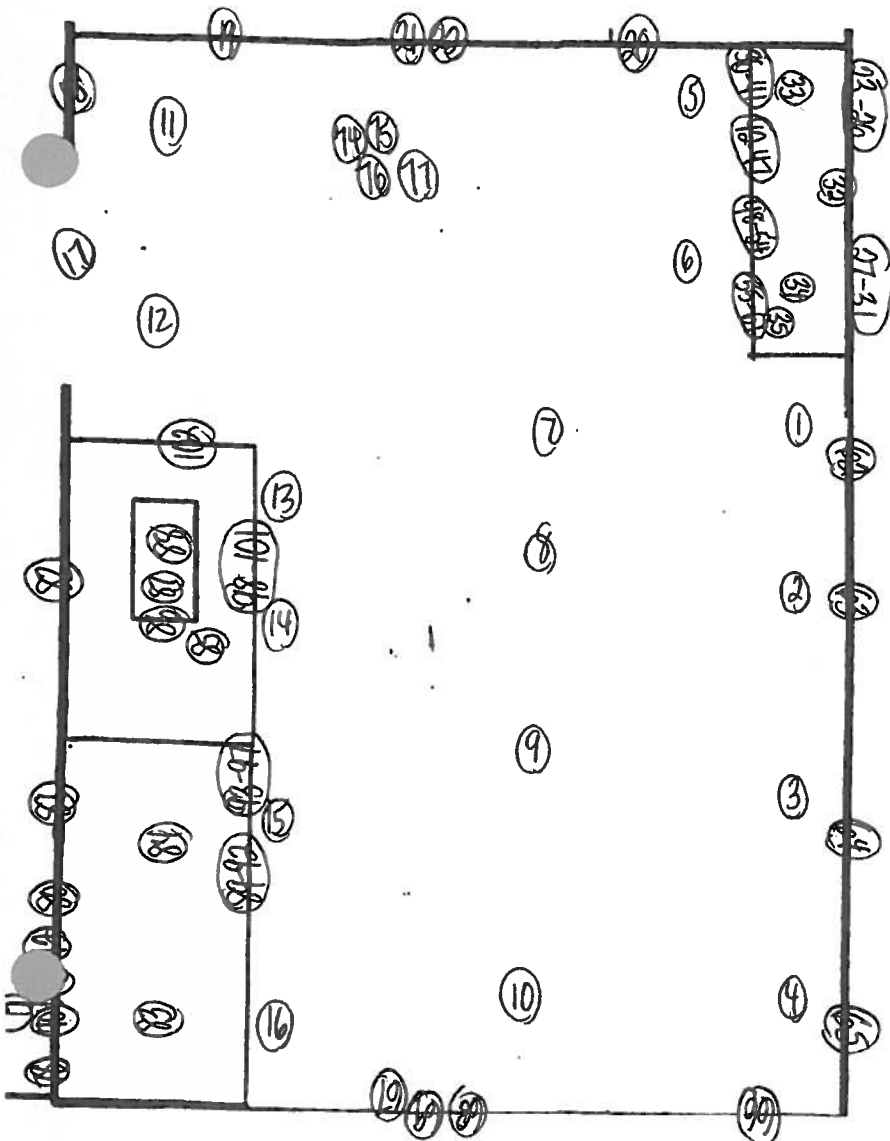
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Date 5/14/01

No.	Time	Location	Inst. Used	Total Activity (dpm/100 cm ²)
47		bot. drawer		
48		out. drawers	1	See attached LSC Printout
49		top drawer	1	
50		drawer	1	
51		"	1	
52		"	1	
53		"	1	
54		bot. drawer	1	
55		out. drawers	1	
56		top drawer	1	
57		drawer	1	√ (see #117)
58		"	1	
59		"	1	
60		"	1	
61		bot. drawer	1	
62		wall	1	
63		"	1	
64		"	1	
65		"	1	
66		"	1	
67		"	1	
68		shade	1	
69		window	1	
70		top shelf	1	
71		shelf	1	
72		bottom shelf	1	
73		safety glasses	1	
74	↓	red chair	1	↓

Radiological Survey Cont. n

No.	Time	Location	Inst. Used	
75		Burgundy chair	1	See attached LSC Printout
76		blue chair	1	
77		blue wastebasket	1	
78		wall	1	
79		"	1	
80		"	1	
81		"	1	
82		"	1	
83		counter	1	
84		"	1	
85		sink counter	1	
86		side of sink	1	
87		bottom	1	
88		drain	1	
89		out. drawers	1	√ (see #118)
90		4th drawer	1	
91		drawer	1	
92		bottom drawer	1	
93		out. drawers	1	
94		pull-out	1	
95		drawer	1	
96		"	1	
97		bot. drawer	1	
98		out. cabinet	1	
99		left	1	
100		bottom	1	
101		right	1	
102		wall	1	



Surveyed 100% of all lower surfaces using instrument 2. All areas were found to be at a level of normal background.

○ = wipe location

TOP EQUIPMENT SURVEY 14 MAY 2001 13:20
 USER : DOMINIC+EQUIPMENT SURVEY

TEST TIME : 1.30
 IS SALE : BL. CPM 98 YES SAMPLE REPEATS : 1 PRINTED : :EDIT
 COUNT SHOW : YES 10% ; NO REPLICATES : 1 REPLY : :EDIT
 TWO LABEL : NO 400 -YES CYCLE REPEAT : :
 SCINTILLATOR : LIQUID LUMEX YES LOW SAMPLE RE : :
 LOW LEVEL : NO HALF LIFE CORRECTION DATE : none

ISOTOPE 1 : 3H XERRORS 3.00 FACTOR 1.0000 BKG. SUB : 0
 ISOTOPE 2 : 14C XERRORS 3.00 FACTOR 1.0000 BKG. SUB : 0
 WIDE OPEN WINDOW WIDTHS 0.00 FACTOR 1.0000 BKG. SUB : 0

BACKGROUND BENCH CURVES: OFF COLOR QUENCH CORRECTION: Off
 Quench Levels Low: 13.888 High: 306.34

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
B1	75.1	19.00	13.00	49.00	33.36	17.07	3.76
		Blank Average DPM for		3H :	33.36	COEF. OF VAR: 0.000	
		Blank Average DPM for		14C :	17.07	COEF. OF VAR: 0.000	

1	85.8	22.00	8.00	43.00	11.04	-6.69	4.31
2	73.8	17.00	12.00	36.00	-4.02	-1.32	2.78
3	75.4	15.00	11.00	38.00	-7.39	-2.61	2.64
4	78.1	18.00	12.00	38.00	-7.58	-1.25	5.71
5	80.1	20.00	8.00	38.00	7.60	-12.04	1.98
6	77.3	18.00	9.00	39.00	6.27	-5.32	3.17
7	78.1	19.00	13.00	42.00	4.57	-0.02	3.62
8	75.1	19.00	7.00	36.00	3.09	-8.02	2.79
9	75.1	20.00	12.00	37.00	2.56	-1.36	3.05
10	77.5	7.00	12.00	28.00	-24.64	-1.12	3.34
11	83.1	15.00	11.00	37.00	-6.42	-2.56	4.00
12	81.5	29.00	11.00	55.00	23.68	-2.80	2.23
13	77.2	16.00	10.00	39.00	-4.54	-3.95	2.30
14	77.0	19.00	11.00	46.00	1.27	-2.66	3.08
15	79.2	17.00	7.00	31.00	-0.57	-7.98	4.87
16	83.9	18.00	13.00	42.00	-0.81	0.08	2.75
17	76.8	15.00	9.00	33.00	-6.20	-5.27	1.74
18	71.8	18.00	7.00	33.00	0.37	-8.02	1.20
19	73.3	22.00	6.00	33.00	9.45	-9.41	3.55
20	72.7	22.00	4.00	39.00	10.32	-12.08	2.19
21	76.5	28.00	12.00	47.00	19.71	-1.48	2.21
22	83.0	20.00	3.00	28.00	8.70	-13.38	2.73
23	71.3	18.00	7.00	37.00	0.31	-8.02	1.78
24	74.5	14.00	9.00	29.00	-8.58	-5.27	4.10
25	72.0	17.00	11.00	40.00	-3.64	-2.66	1.60
26	74.9	24.00	8.00	52.00	12.95	-6.77	1.77
27	74.3	19.00	10.00	37.00	1.35	-4.02	1.78
28	75.3	26.00	10.00	48.00	16.22	-4.13	1.92
29	76.4	10.00	7.00	23.00	-15.79	-7.87	3.81
30	73.3	19.00	10.00	42.00	1.19	-4.02	1.61
31	76.1	24.00	5.00	39.00	14.75	-10.78	1.90
32	78.9	16.00	12.00	41.00	-5.34	-1.26	3.04
33	89.1	25.00	12.00	46.00	16.37	-1.35	2.83
34	79.2	89.00	9.00	105.00	152.64	-6.50	1.34
35	85.5	23.00	8.00	47.00	13.19	-6.71	2.82
36	77.5	16.00	8.00	39.00	-3.47	-6.63	1.78

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
37	75.3	15.00	12.00	36.00	-7.91	-1.27	2.10
38	75.1	21.00	7.00	39.00	7.19	-8.05	1.98
39	72.8	18.00	11.00	36.00	-1.47	-2.67	1.46
40	74.3	12.00	5.00	27.00	-10.78	-10.58	2.51
41	75.7	15.00	11.00	38.00	-7.36	-2.61	1.84
42	78.1	21.00	6.00	36.00	8.30	-9.38	2.81
43	83.1	18.00	13.00	37.00	-0.93	0.08	3.13
44	75.4	28.00	10.00	44.00	20.45	-4.16	1.43
45	74.7	19.00	7.00	33.00	2.93	-8.02	1.91
46	75.1	18.00	15.00	48.00	-3.15	2.69	2.29
47	75.7	30.00	5.00	44.00	27.28	-10.87	2.70
48	75.2	20.00	9.00	39.00	4.11	-5.36	1.62
49	75.2	18.00	7.00	33.00	0.92	-8.01	2.20
50	76.7	13.00	6.00	29.00	-8.91	-9.26	1.63
51	78.2	19.00	4.00	33.00	5.08	-12.03	3.10
52	77.9	21.00	11.00	45.00	5.68	-2.69	1.56
53	80.1	13.00	14.00	44.00	-12.68	1.48	1.15
54	74.4	19.00	9.00	40.00	1.88	-5.35	2.24
55	74.4	20.00	11.00	43.00	2.95	-2.70	1.31
56	77.5	72.00	11.00	113.91	-3.54	0.81	
57	77.1	26.00	8.00	49.00	17.68	-6.79	1.86
58	75.9	23.00	12.00	45.00	9.01	-1.40	1.72
59	74.6	18.00	10.00	39.00	-0.66	-4.00	1.69
60	77.4	23.00	9.00	41.00	10.87	-5.40	1.12
61	74.3	15.00	12.00	35.00	-8.03	-1.28	2.45
62	73.5	19.00	11.00	37.00	0.72	-2.69	1.60
63	76.9	16.00	6.00	33.00	-2.54	-9.30	1.23
64	77.4	11.00	4.00	23.00	-12.05	-11.90	3.03
65	78.7	9.00	5.00	20.00	-16.71	-10.52	2.31
66	73.8	13.00	9.00	33.00	-10.75	-5.26	1.20
67	74.9	10.00	11.00	31.00	-17.94	-2.53	1.61
68	80.1	20.00	15.00	43.00	1.87	2.70	0.87
69	92.5	18.00	9.00	37.00	2.89	-5.25	1.80
70	82.3	15.00	9.00	33.00	-5.48	-5.25	1.87
71	75.1	20.00	9.00	38.00	4.09	-5.36	1.50
72	83.8	21.00	9.00	35.00	7.89	-5.34	1.59
73	85.2	17.00	8.00	48.00	-0.13	-6.61	3.68
74	72.4	16.00	12.00	43.00	-6.17	-1.31	1.37
75	77.7	23.00	13.00	47.00	8.88	-0.05	1.16
76	81.7	21.00	9.00	45.00	7.46	-5.35	1.88
77	84.0	20.00	11.00	47.00	4.66	-2.64	1.70
78	76.7	17.00	10.00	40.00	-2.49	-3.97	1.51
79	83.0	28.00	14.00	53.00	20.36	1.25	2.49
80	80.4	18.00	12.00	39.00	-0.84	-1.29	2.53
81	80.5	22.00	4.00	41.00	11.98	-12.08	2.17
82	79.5	12.00	12.00	33.00	-13.84	-1.19	2.03
83	82.8	17.00	6.00	30.00	0.55	-9.30	2.22
84	91.1	30.00	13.00	51.00	27.70	-0.08	2.05
85	77.7	11.00	9.00	25.00	-14.59	-5.20	2.54
86	74.8	12.00	12.00	38.00	-14.26	-1.23	2.49
87	84.3	29.00	12.00	53.00	23.97	-1.45	1.04
88	82.3	74.00	15.00	98.00	119.72	1.80	1.23
89	77.0	23.00	16.00	45.00	7.19	3.96	1.13
90	77.3	14.00	8.00	33.00	-7.74	-6.59	1.58
91	78.4	10.00	11.00	32.00	-17.69	-2.51	2.98
92	77.2	24.00	11.00	49.00	11.91	-2.74	1.18
93	77.3	26.00	13.00	51.00	15.16	-0.10	1.45
94	76.8	15.00	8.00	32.00	-5.68	-6.61	2.00

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
95	80.4	20.00	8.00	42.00	5.56	-6.68	2.06
96	75.2	16.00	5.00	34.00	-2.28	-10.65	2.27
97	83.5	18.00	9.00	37.00	1.23	-6.27	2.77
98	79.9	25.00	4.00	39.00	16.04	-11.13	2.77
99	82.6	17.00	7.00	34.00	-1.35	-5.29	1.91
100	79.8	17.00	7.00	39.00	1.22	-1.51	2.77
101	75.2	23.00	7.00	44.00	11.51	-8.09	1.95
102	78.4	15.00	4.00	39.00	-2.31	-9.30	2.26
103	82.6	17.00	7.00	39.00	4.42	-8.00	3.61
104	87.6	15.00	10.00	35.00	-8.04	-3.88	6.39
105	86.5	13.00	19.00	40.00	-14.73	8.26	6.00
106	84.4	22.00	13.00	43.00	8.06	0.02	4.11
107	85.7	19.00	8.00	40.00	4.39	-6.64	2.95
108	101.8	22.00	7.00	40.00	15.61	-8.00	6.16
109	97.8	20.00	12.00	42.00	6.93	-1.20	5.62
110	86.5	19.00	16.00	48.00	0.22	4.12	3.71
111	90.4	16.00	11.00	37.00	-3.15	-2.53	3.14
112	98.3	17.00	4.00	43.00	1.11	-5.22	3.91
113	99.4	15.00	11.00	34.00	-4.04	-2.45	5.70
114	95.4	20.00	9.00	44.00	8.10	-5.27	6.09
115	84.0	11.00	9.00	37.00	-14.02	-5.17	2.74

ID: EQUIPMENT SURVY
 USER: 1 COMMENT: EQUIPMENT SURVEY
 15 MAY 2001 12:57
 RESET TIME : 1.00
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : EDIT
 COUNT BLANK : YES IC# : NO REPLICATES : 1 RS232 : EDIT
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1
 SCINTILLATOR: LIQUID LUMEX: YES LOW SAMPLE REJ: 0
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.0000 BKG. SUB: 0
 WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.0000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 13.688 High: 306.34

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	3H DPM	14C DPM	LUMEX %
B1	88.8	12.00	14.00	36.00	19.31	18.64	12.41
		Blank Average DPM for		3H :	19.31	COEF. OF VAR: 0.000	
		Blank Average DPM for		14C :	18.64	COEF. OF VAR: 0.000	
116	77.9	14.00	4.00	29.00	8.43	-13.52	2.15
117	84.1	19.00	13.00	44.00	15.46	-1.51	3.80
118	83.3	84.00	14.00	108.00	156.90	-1.28	0.93

110f11

ID: MB-COPY CALIBRA

001 10-93

TR:17 COMMENT:

SET TIME : 1.00
 DATA CALC : DL DPM H# : YES SAMPLE PREPARED: PL
 COUNT BLANK : YES IC# : NO REPLICATES : 1
 TWO PHASE : NO ACC : YES CYCLE SERIES :
 SCINTILLATOR: LIQUID LUXEY YES LOW SAMPLE :
 LOW LEVEL : NO HALF LIFE CO :

ISOTOPE 13 3H XE 2.0

ISOTOPE 14 14C XE 2.0

WIDE OPEN WINDOW

BACKGROUND QUENCH: 20000 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Quench 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

SAM NO	H#	3H CPM	14C CPM	WIDE CPM	SP DPM	14C DPM	RATIO	UNC %
		16.34	6.54	2.500	1.15			
		Blank Average DPM for 3H :	16.34	COEF. OF VAR:	0.000			
		Blank Average DPM for 14C :	6.54	COEF. OF VAR:	0.000			
119	86.4	19.00	6.00	37.00	22.62	1.20	18.796	2.93