

Radiological Survey Form (1)

Job Location: PEPPER GROTON CT LAB 233 Page: 1 of 25
 Survey Purpose: DECOMMISSIONING Date: 3/12/98
 Performed By: DAVID J. DURKEE *[Signature]*

Inst. No. 1 (Model/SN) #7040735 <u>BELMAN L55000</u>	Inst. No. 2 (Model/SN) #137257 <u>LUDLUM MODEL 2241-2</u>	Inst. No. 3 (Model/SN) #114208 <u>LUDLUM MODEL 3</u>
Detector (Model/SN) <u>INTERNAL</u>	Detector (Model/SN) <u>LUDLUM 43-68 PR140899</u>	Detector (Model/SN) <u>LUDLUM MODEL 44-9 #114780</u>
Efficiency: ^{H-3} 39% - 48% / ^{C-14 P-32} 71% - 75%	Efficiency: <u>14% C-14</u>	Efficiency: <u>≈ 4% C-14</u>
Type Rad.: <u>β</u>	Type Rad.: <u>β</u>	Type Rad.: <u>α/β/γ</u>
Bkgd.: <u>See attached printouts</u>	Bkgd.: <u>350cpm</u>	Bkgd.: <u>40cpm</u>
Cal. Due: <u>6/98</u>	Cal. Due: <u>4/15/98</u>	Cal. Due: <u>4/1/98</u>

Number	Time	Location	Inst. Used	H-3 dpm/100cm ²	C-14 dpm/100cm ²	P-32 dpm/100cm ²
1	0831	DESK	1	13	0	1
2		COUNTER	1	0	0	7
3		COUNTER	1	0	0	0
4		COUNTER	1	2	19	0
5		COUNTER	1	0	0	0
6		DESK	1	4	0	5
7		SHELF Lower	1	0	0	0
8		SHELF UPPER	1	0	0	0
9		Cup SINK	1	7	13	0
10		Cup SINK	1	0	0	3
11		DESK	1	12	0	0
12		COUNTER	1	0	0	0
13		COUNTER	1	23	9	0
14		COUNTER	1	40	4	1
15		COUNTER	1	0	0	0
16		COUNTER	1	0	0	8
17		Cup SINK	1	4	0	1
18		Cup SINK	1	7	0	4
19		Shelf Lower	1	5	0	5
20		SHELF upper	1	0	3	3
21		COUNTER	1	0	0	9
22	✓	COUNTER	1	0	7	8

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Number	Time	Location	Inst. Used	H-3	C-14	P-32	
				dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	
23		HOOD COUNTER LEFT	1	0	0	1	
24		HOOD COUNTER RIGHT	1	2	0	4	
25		LIP OF HOOD	1	0	0	4	
26		BACK HOOD LEFT	1	9	0	4	
27		BACK HOOD RIGHT	1	7	0	4	
28		LEFT SIDE HOOD	1	16	0	0	
29		RIGHT SIDE HOOD	1	0	0	4	
30		HOOD SINK	1	3	0	8	
31		OUTSIDE HOOD GLASS	1	14	3	7	
32		INSIDE HOOD GLASS	1	0	1	1	
33		UPPER SHELF	1	7	0	0	
34		LOWER SHELF	1	8	0	0	
35		DRAWER BOTTOM	1	0	0	0	
36		DRAWER MIDDLE	1	0	0	1	
37		DRAWER TOP	1	0	3	9	
38		DRAWER TOP	1	0	0	0	
39		DRAWER TOP	1	0	3	0	
40		DRAWER TOP	1	0	0	3	
41		DRAWER TOP	1	0	0	7	
42		DRAWER TOP	1	2	0	8	
43		DRAWER MID TOP	1	0	0	0	
44		DRAWER MID TOP	1	0	0	4	
45		DRAWER MID BOTTOM	1	0	0	12	
46		BOTTOM BOTTOM	1	0	4	0	
47		DRAWER	1	0	0	1	
48		DRAWER TOP	1	10	0	3	
49		DRAWER TOP	1	0	0	0	
50		DRAWER MID TOP	1	0	0	0	
51		DRAWER MID TOP	1	13	3	0	
52	✓	DRAWER MID BOTTOM	1	14	0	3	

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Number	Time	Location	Inst. Used	H-3 dpm/100cm ²	C-14 dpm/100cm ²	P-32 dpm/100cm ²
53		MID BOTTOM DRAWER	1	0	0	1
54		BOTTOM DRAWER	1	0	0	0
55		DRAWER BOTTOM	1	5	1	0
56		FRONT CABINET	1	0	0	0
57		FRONT CABINET	1	6	0	0
58		FRONT DESK	1	17	0	1
59		FRONT DESK	1	0	0	0
60		FRONT CABINET	1	0	0	1
61		FRONT CABINET	1	0	0	7
62		TOP DRAWER	1	5	0	0
63		TOP DRAWER	1	0	0	0
64		MID TOP DRAWER	1	0	0	0
65		MID BOTTOM DRAWER	1	0	0	0
66		BOTTOM DRAWER	1	0	0	0
67		DRAWER	1	22	0	5
68		TOP DRAWER	1	0	0	0
69		TOP DRAWER	1	20	0	4
70		MID TOP DRAWER	1	9	0	0
71		MID TOP DRAWER	1	0	0	1
72		MID BOTTOM DRAWER	1	0	0	15
73		MID BOTTOM DRAWER	1	15	0	3
74		BOTTOM DRAWER	1	0	4	4
75		BOTTOM DRAWER	1	0	0	0
76		DESK DRAWER	1	16	0	0
77		UPPER WALL	1	0	0	0
78		UPPER WALL	1	0	0	0
79		LOWER WALL	1	5	0	3
80		FLOOR	1	5	0	0
81		FLOOR	1	3	3	11
82	✓	FLOOR	1	2	1	0

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Number	Time	Location	Inst. Used	H-3	C-14	P-32	
				cpm/100cm ²	cpm/100cm ²	cpm/100cm ²	
83		FLOOR	1	2	0	0	
84		FLOOR	1	9	0	5	
85		FLOOR	1	0	0	0	
86		SHelves (RACK)	1	2	1	1	
87		FLOOR	1	0	0	19	
88		FLOOR	1	5	0	0	
89		BOTTOM SHELF	1	0	0	0	
90		MIDDLE SHELF	1	0	0	0	
91		TOP SHELF	1	0	1	0	
92		TOP DRAWER	1	16	0	0	
93		MIDDLE DRAWER	1	0	0	4	
94		BOTTOM DRAWER	1	4	0	7	
95		TOP DRAWER	1	0	0	0	
96		MIDDLE DRAWER	1	0	3	4	
97		BOTTOM DRAWER	1	5	0	4	
98		TOP DRAWER	1	0	0	5	
99		MIDDLE DRAWER	1	2	0	0	
100		BOTTOM DRAWER	1	6	0	5	
101		TOP DRAWER	1	0	0	4	
102		MIDDLE DRAWER	1	0	1	4	
103		BOTTOM DRAWER	1	9	0	1	
104		FRONT OF CABINET	1	13	0	8	
105		FRONT OF CABINET	1	0	0	4	
106		FRONT OF CABINET	1	0	0	8	
107		FRONT OF CABINET	1	0	0	0	
108		UPPER WAH	1	16	0	0	
109		UPPER WAH	1	16	0	0	
110		UPPER WAH	1	0	9	0	
111		UPPER WAH	1	0	0	0	
112	✓	Drawer	1	0	0	0	

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Number	Time	Location	Inst. Used	H-3 dpm/100cm ²	C-14 dpm/100cm ²	P-32 dpm/100cm ²	
113		BOTTOM SHELF	1	0	0	8	
114		MIDDLE SHELF	1	0	0	15	
115		UPPER SHELF	1	0	4	0	
116		UPPER SHELF	1	0	0	14	
117		TOP MID SHELF	1	10	0	4	
118		BOTTOM MID SHELF	1	0	0	4	
119		BOTTOM SHELF	1	8	0	0	
120		BOTTOM SHELF	1	20	5	0	
121		BOTTOM MID SHELF	1	15	0	4	
122		TOP MID SHELF	1	0	0	3	
123		TOP SHELF	1	17	14	3	
124		FLOOR	1	5	0	0	
125		FLOOR	1	0	0	0	
126		FLOOR	1	15	0	1	
127		FLOOR	1	0	0	3	
128		FLOOR	1	0	0	1	
129		DRAWER TOP	1	0	0	0	
130		TOP DRAWER	1	0	0	5	
131		MID TOP DRAWER	1	0	0	3	
132		MID BOTTOM DRAWER	1	0	0	3	
133		BOTTOM DRAWER	1	0	4	7	
134		DRAWER	1	11	0	7	
135		TOP DRAWER	1	0	0	0	
136		TOP DRAWER	1	0	0	1	
137		MID TOP DRAWER	1	11	0	0	
138		MID TOP DRAWER	1	0	0	0	
139		MID BOTTOM DRAWER	1	20	3	5	
140		MID BOTTOM DRAWER	1	20	0	4	
141		BOTTOM DRAWER	1	0	3	3	
142	V	BOTTOM DRAWER	1	0	0	0	

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Number	Time	Location	Inst. Used	H-3 dpm/100cm ²	C-14 dpm/100cm ²	P-32 dpm/100cm ²	
143		DRAWER	1	0	0	5	
144		DRAWER TOP	1	2	0	0	
145		DRAWER MIDDLE	1	2	0	0	
146		DRAWER BOTTOM	1	4	0	5	
147		FRONT CABINET	1	10	0	1	
148		FRONT CABINET	1	0	0	0	
149		FRONT CABINET	1	0	1	0	
150		LOWER WALL	1	0	1	0	
151		DESK TOP	1	0	0	0	
152		UPPER WALL	1	5	0	1	
153		TOP OF FILING CABINET	1	0	0	0	
154		LOWER SHELF	1	0	0	14	
155		MID BOTTOM SHELF	1	12	0	4	
156		TOP MID SHELF	1	0	0	7	
157		TOP SHELF	1	174	164	0	(see #341)
158		BOTTOM SHELF	1	0	7	1	
159		MID BOTTOM SHELF	1	0	0	0	
160		MID TOP SHELF	1	5	0	3	
161		TOP SHELF	1	8	0	5	
162		DESK TOP	1	0	0	3	
163		TOP DRAWER	1	0	0	3	
164		MIDDLE DRAWER	1	4	0	7	
165		BOTTOM DRAWER	1	0	0	0	
166		DRAWER	1	13	0	12	
167		FRONT OF CABINET	1	0	0	0	
168		LOWER WALL	1	0	5	0	
169		UPPER WALL	1	4 exp	0	0	
170		TOP DRAWER	1	0	0	4	
171		MIDDLE DRAWER	1	2	0	1	
172	✓	CABINET	1	0	0	4	

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Number	Time	Location	Inst. Used	H-3	C-14	P-32	
				dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	
173		DRAWER	1	0	0	12	
174		FRONT OF CABINET	1	0	0	0	
175		COUNTER	1	7	0	0	
176		SHELF LOWER	1	0	0	0	
177		SHELF UPPER	1	23	41	11	
178		SINK	1	0	7	1	
179		COUNTER	1	4	0	7	
180		TOP DRAWER	1	0	0	1	
181		MID TOP DRAWER	1	2	0	0	
182		MID BOTTOM DRAWER	1	0	0	5	
183		BOTTOM DRAWER	1	21	22	4	
184		TOP DRAWER	1	0	1	0	
185		DRAWER MIDDLE	1	9	0	0	
186		CABINET	1	0	0	0	
187		LEFT CABINET	1	8	0	0	
188		RIGHT CABINET	1	0	0	0	
189		FRONT CABINETS	1	0	0	0	
190		FRONT CABINET	1	0	0	1	
191		FRONT CABINET	1	7	0	4	
192		LEFT CABINET UNDER HOOD	1	15	0	14	
193		FRONT OF CABINET	1	0	0	0	
194		FRONT OF CABINET	1	0	0	3	
195		RIGHT CABINET UNDER HOOD	1	0	9	0	
196		FLOOR MAT	1	0	1	0	
197		FLOOR	1	7	0	0	
198		FLOOR	1	0	0	0	
199		FLOOR	1	0	0	0	
200		FLOOR	1	2	0	0	
201		UPPER WALL	1	4	0	5	
202	✓	LOWER WALL	1	0	0	4	

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Number	Time	Location	Inst. Used	H-3	C-14	P-32	
				dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	
203		Door	1	4	0	0	
204		Door	1	0	0	0	
205		UPPER WALL	1	2	0	4	
206		LOWER WALL	1	17	0	0	
207		FLOOR	1	0	3	9	
208		FLOOR	1	0	0	1	
209		FLOOR	1	0	0	4	
210		UPPER WALL	1	0	0	0	
211		LOWER WALL	1	0	0	19	
212		Door	1	0	0	1	
213		TOP OF FILING CABINET	1	33	77	0	
214		TOP OF FILING CABINET	1	0	0	1	
215		UPPER WALL	1	6	5	9	
216		UPPER WALL	1	0	1	0	
217		LOWER WALL	1	0	0	3	
218		FRONT OF FILING CABINET	1	0	0	8	
219		DESK TOP	1	13	1	4	
220		UPPER WALL	1	6	0	0	
221		LOWER WALL	1	0	0	0	
222		BOTTOM SHELF	1	13	0	0	
223		MIDDLE SHELF	1	5	0	0	
224		TOP SHELF	1	0	11	0	
225		TOP SHELF	1	0	0	0	
226		MID TOP SHELF	1	0	1	0	
227		MID BOTTOM SHELF	1	26	9	0	
228		BOTTOM SHELF	1	8	5	0	
229		HIGH BOTTOM SHELF	1	0	0	1	
230		MID BOTTOM SHELF	1	7	0	0	
231		MID TOP SHELF	1	0	0	0	
232	✓	TOP SHELF	1	5	1	4	

(See # 312)

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Number	Time	Location	Inst. Used	H-3 dpm/100cm ²	C-14 dpm/100cm ²	P-32 dpm/100cm ²
233		TOP DRAWER	1	0	0	0
234		MIDDLE DRAWER	1	0	0	0
235		BOTTOM DRAWER	1	0	0	7
236		DRAWER	1	0	0	0
237		FRONT OF CABINET DRAWER	1	0	0	0
238		TOP OF DRAWER	1	16	0	5
239		TOP DRAWER	1	4	1	4
240		TOP MID DRAWER	1	14	0	4 4
241		TOP MID DRAWER	1	9	0	0
243		BOTTOM MID DRAWER	1	14	0	13 3
244		BOTTOM MID DRAWER	1	9	3	3
245		BOTTOM DRAWER	1	2	0	3
246		BOTTOM DRAWER	1	16	0	5
247		TOP DRAWER FRONT OF CABINET	1	2	3	8
248		TOP DRAWER	1	0	0	0
249	√	MID TOP DRAWER	1	7	0	4
250	1112	MID TOP DRAWER	1	0	0	0
251	0740	LOWER MID DRAWER	1	0	0	16
252		LOWER MID DRAWER	1	2	0	4
253		BOTTOM DRAWER	1	2	3	0
254		BOTTOM DRAWER	1	5	3	0
255		DOOR	1	11	0	7
256		Cup sink	1	2	1	5
257		Cup sink	1	0	0	9
258		COUNTER	1	0	0	0
259		DESK	1	4	0	0
260		DESK	1	9	0	4
261		FLOOR	1	14	0	4
262		FLOOR	1	0	0	7
263	√	Floor	1	2	0	5

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Number	Time	Location	Inst. Used	H-3 dpm/100cm ²	C-14 dpm/100cm ²	P-32 dpm/100cm ²
264		Floor	1	16	0	0
265		Floor	1	0	1	3
266		Floor	1	0	0	3
267		Floor	1	2	0	3
268		Floor	1	20	1	9
269		Floor	1	0	0	1
270		Floor	1	0	5	4
271		Floor	1	27	0	13
272		DESK	1	9	5	9
273		LOWER SHELF	1	14	7	0
274		MIDDLE SHELF	1	14	0	0
275		TOP SHELF	1	14	1	5
276		BOTTOM SHELF	1	16	3	3
277		MIDDLE SHELF	1	0	0	0
278		TOP SHELF	1	12	0	3
279		BOTTOM SHELF	1	21	0	9
280		MIDDLE SHELF	1	0	0	0
281		TOP SHELF	1	0	0	5
282		DESK TOP	1	364*	26	0
283		UPPER WALL	1	2	0	0
284		LOWER WALL	1	20	0	8
285		UPPER WALL	1	7	0	9
286		LOWER WALL	1	5	0	7
287		UPPER WALL	1	13	0	0
288		LOWER WALL	1	0	0	17
289		UPPER WALL	1	2	0	4
290		LOWER WALL	1	15	0	1
291		UPPER WALL	1	0	0	0
292		LOWER WALL	1	0	0	7
293	✓	PLASTIC RADIOACTIVE BIN	1	0	0	5

Radcor, LLC Salem, CT 06420 (860)887-1538

* Chemluminescence

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Number	Time	Location	Inst. Used	H-3 dpm/100cm ²	C-14 dpm/100cm ²	P-32 dpm/100cm ²
294		FRONT OF CABINET	1	13	1	5
295		FRONT OF CABINET	1	0	1	9
296		IN CABINET	1	0	0	1
297		IN CABINET	1	33	0	1
298		LIP TO HOOD	1	10	0	3
299		UPPER WALL	1	7	0	4
300		LOWER WALL	1	16	47	0
301		UPPER WALL	1	0	0	8
302		UPPER WALL	1	0	0	0
303		UPPER WALL	1	0	0	7
304		LOWER WALL	1	0	0	0
305		LOWER WALL	1	0	0	5
306		LOWER WALL	1	0	3	15
307		SHELF	1	0	0	11
308		SHELF	1	2	4	4
309		OUTSIDE HOOD SASH	1	16	0	9
310		INSIDE HOOD SASH	1	0	7	1
311		HOOD COUNTER Left	1	18	0	0
312		HOOD counter Right	1	0	0	0
313		Left in Hood side	1	13	0	0
314		Right side in Hood	1	14	1	13
315		LEFT BACK	1	14	0	12
316		Right BACK	1	13	0	4
317		SINK	1	2	4	1
318		TOP LEFT HOOD	1	0	0	15
319		TOP RIGHT HOOD	1	0	0	0
320	✓	TOP LEFT HOOD	1	49	69	1
321	0813	TOP RIGHT HOOD	1	8	3	5
322	1421	Floor post beam	1	472*	50*	0
323	↓	Drinet post beam	1	4	0	5

*Chemical response

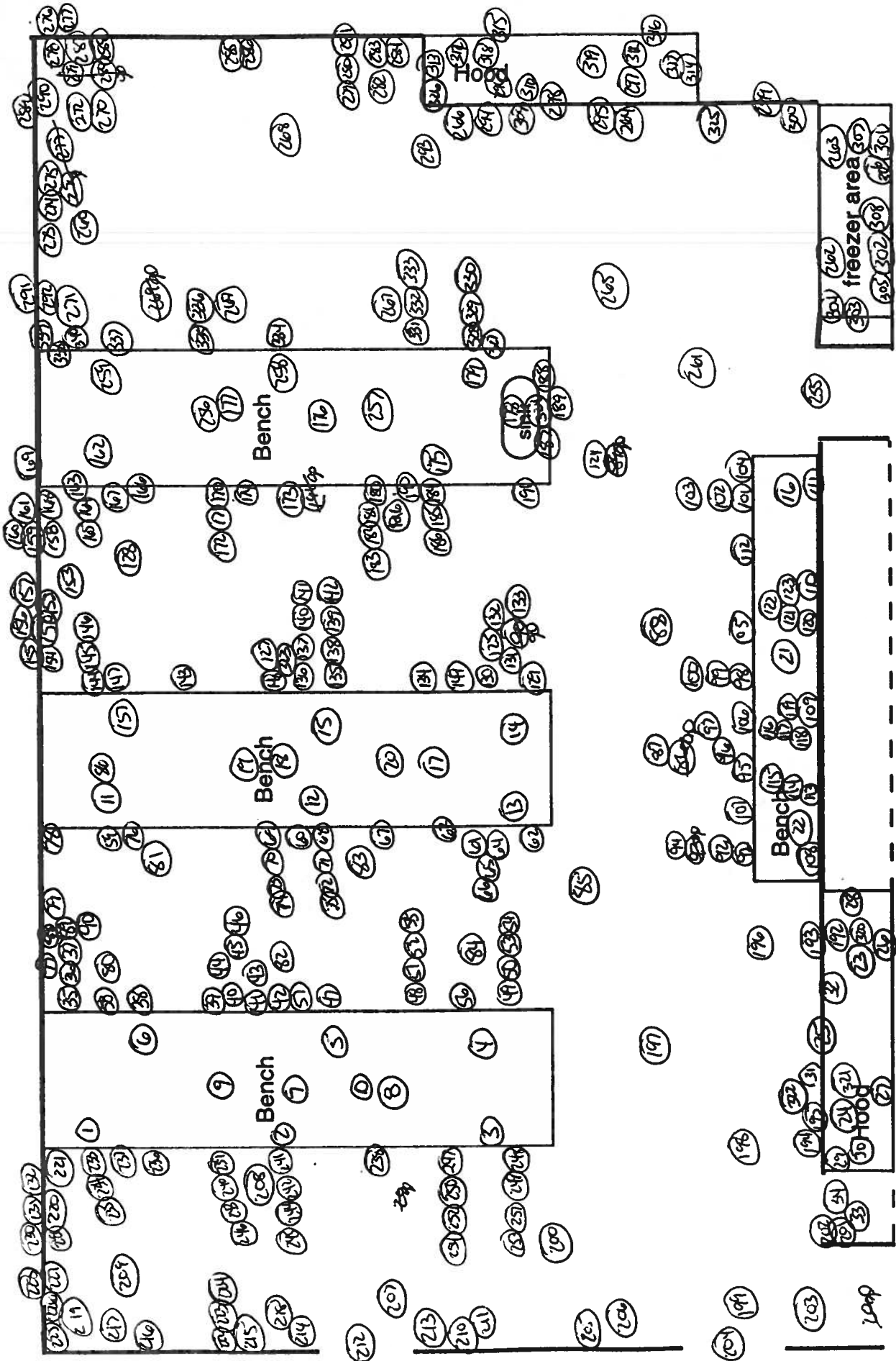
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Number	Time	Location	Inst. Used	14-3 dpm/100cm ²	C-14 dpm/100cm ²	K-32 dpm/100cm ²	
324		COUNTER POST DECK	1	10	11	0	
325		WALL POST DECK	1	0	0	8	
326		HOOD POST DECK	1	6	4	3	
327		TOP DRAWER	1	0	0	0	
328		MID TOP DRAWER	1	13	0	1	
329		MID BOTTOM DRAWER	1	0	1	0	
330		BOTTOM DRAWER	1	26	14	7	
331		TOP DRAWER	1	33	0	5	
332		Drawer	1	20	0	0	
333		Cabinet	1	2	1	3	
334		Drawer	1	9	0	0	
335		Drawer	1	0	0	7	
336		Cabinet	1	5	0	5	
337		Drawer	1	15	0	0	
338		TOP Drawer	1	15	0	8	
339	↓	MID TOP Drawer	1	27	0	8	
340	1631	Bottom Drawer	1	2	0	0	
341	1000	Recipe location #157	1	306*	0	N/A	
342	↓	Recipe location #213	1	28	3	N/A	

3/11/88

* Chemoluminescence



△ - DESIGNATES
ATHLETES OF EVENT
ACTIVITY

○ = SWIPE
LOCATION

freezer area
263
262
261
260
259
258
257
256
255

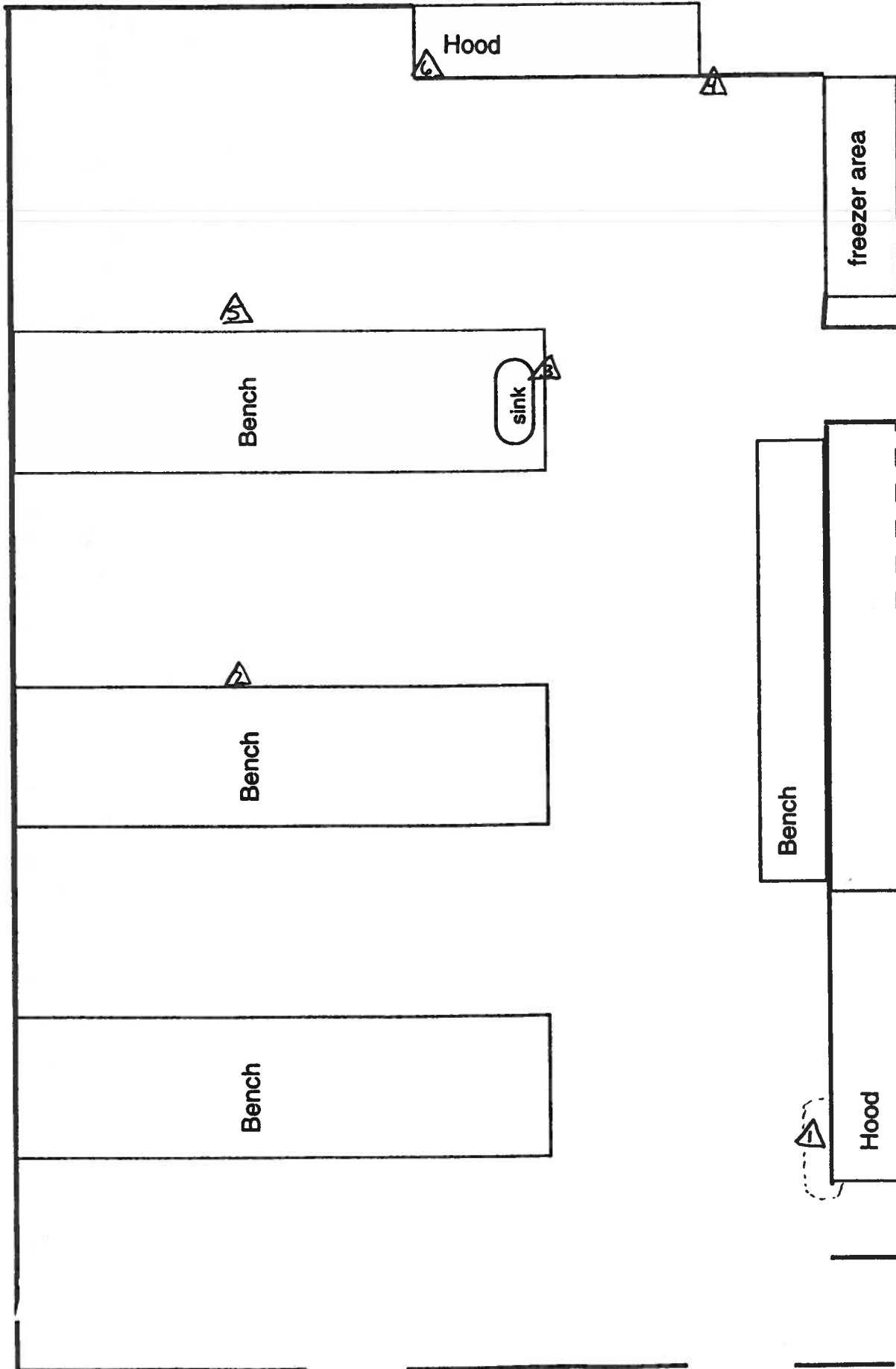
Bench
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

Bench
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

Bench
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

Bench
9
8
7
6
5
4
3
2
1

203
202
201
200



△ = AREAS
OF ELEVATED
ACTIVITY.

SEE PAGE 15 OF
FOR FURTHER
INFORMATION

Radiological Survey Comments Form

Job Location: PFIZER GASTON CT LAB 233 Page: 15 of 25
Survey Purpose: DECOMMISSIONING Date: 3/13/98
Performed By: DAVID J DURICE [Signature]

- SURVEYED 100% OF LOWER SURFACES INCLUDING COUNTERS, SHELVES, CABINETS, DRAWERS AND WALLS UP TO A HEIGHT OF APPROXIMATELY 2 METERS, USING INSTRUMENT #2. ALL SURFACES SURVEYED WERE NOTED TO BE AT NORMAL BACKGROUND LEVELS WITH THE FOLLOWING EXCEPTIONS:

- Δ THE FLOOR IN FRONT OF THE FUME HOOD WAS FOUND TO BE CONTAMINATED TO A LEVEL OF $\frac{9243}{39,854} \text{ DPM}/100\text{cm}^2$ (C-14, FIXED) OVER AN AREA OF APPROXIMATELY 600 cm^2 . REMOVAL OF 3 FLOOR TILES WAS ABLE TO REDUCE ACTIVITY TO A LEVEL OF $9243 \text{ DPM}/100\text{cm}^2$. HOOD CABINET WOULD HAVE TO BE REMOVED TO ACCESS REMAINING CONTAMINATION. THIS WILL BE ADDRESSED DURING FUTURE LABORATORY RENOVATION OR DECOMMISSIONING. DECORATED TO NORMAL BACKGROUND LEVELS 09/01. (RADCOR)
- Δ THE THIRD DRAWER DOWN ON THE RIGHT SIDE OF THE 2^{ND} BENCH WAS FOUND TO BE CONTAMINATED TO A LEVEL OF $3929 \text{ DPM}/100\text{cm}^2$ OVER AN AREA OF APPROXIMATELY 20 cm^2 , (C-14, FIXED), THIS AREA WAS DECONTAMINATED TO NORMAL BACKGROUND LEVELS USING DECON SOLUTION AND STEEL WOOL.
- Δ THE LIP OF THE SINK WAS FOUND TO BE CONTAMINATED TO A LEVEL OF $11,770 \text{ DPM}/100\text{cm}^2$ OVER AN AREA OF APPROXIMATELY 50 cm^2 . THIS AREA WAS DECONTAMINATED TO A LEVEL OF $9,643 \text{ DPM}/100\text{cm}^2$ USING STEEL WOOL & DECON SOLUTION. REMAINING ACTIVITY IS FIXED UNDER LIP OF SINK AND CANNOT BE ACCESSED WITHOUT REMOVAL OF THE SINK. THIS AREA WILL BE FURTHER DECONTAMINATED DURING FUTURE LABORATORY RENOVATION OR DECOMMISSIONING. DECORATED TO NORMAL BACKGROUND LEVELS (RADCOR) 09/01.
- Δ THE WALL TO THE LOWER RIGHT OF THE FUME HOOD WAS FOUND TO BE CONTAMINATED TO A LEVEL OF $7,500 \text{ DPM}/100\text{cm}^2$ (C-14, FIXED) OVER AN AREA OF $\approx 600 \text{ cm}^2$. THIS AREA WAS DECONTAMINATED TO NORMAL BACKGROUND LEVELS THROUGH THE USE OF STEEL WOOL AND DECON SOLUTION.
- Δ A BENCH STOOL WAS FOUND TO BE CONTAMINATED, ON THE SEAT, TO A LEVEL OF $6,071 \text{ DPM}/100\text{cm}^2$ (C-14, FIXED) OVER AN AREA OF 200 cm^2 . THE SEAT WAS REMOVED AND DISPOSED OF AS RADIOACTIVE WASTE.
- Δ THE BOTTOM LEFT FRONT SIDE OF A FUME HOOD WAS FOUND TO BE CONTAMINATED TO A LEVEL OF $15,957 \text{ DPM}/100\text{cm}^2$ (C-14, FIXED) OVER AN AREA OF $\approx 200 \text{ cm}^2$. THE AREA WAS DECONTAMINATED TO A LEVEL OF $4350 \text{ DPM}/100\text{cm}^2$ USING STEEL WOOL AND DECON SOLUTION.

USER: 5 ID:5 PRESET TIME: 1.00 FRI 13 MAR 1998 15:50
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N
 H#: 1 AQC:Y QCF:N RCM:Y
 RCM-TIME: 0.10 INT:999.95
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 2-LL:400 UL: 670 2SIGMA: 2.00 BKG SUB: 14.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 3-LL:670 UL:1000 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR:Q 1.00000
 HALF LIFE(DAYS):N

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
1	6.00	0.00	1.00	1.00	60.0	1.71	
2	-1.00	-7.00	5.00	1.00	67.0	2.88	108
3	-3.00	-4.00	-6.00	1.00	66.0	6.85	108
4	1.00	14.00	-4.00	1.00	83.0	4.89	110
5	-2.00	-2.00	-2.00	1.00	60.0	3.69	108
6	2.00	-5.00	4.00	1.00	74.0	2.89	109
7	0.00	-5.00	-3.00	1.00	82.0	9.35	109
8	-3.00	-9.00	0.00	1.00	86.0	8.89	108
9	3.00	10.00	-7.00	1.00	69.0	3.11	110
10	-2.00	-6.00	2.00	1.00	100.0	19.69	108
11	5.00	0.00	-7.00	1.00	86.0	5.97	110
12	0.00	-5.00	-3.00	1.00	78.0	8.82	109
13	9.00	7.00	-2.00	1.00	114.0	14.72	110
14	17.00	3.00	1.00	1.00	88.0	3.95	
15	-5.00	-2.00	-4.00	1.00	74.0	5.79	108
16	0.00	-3.00	6.00	1.00	87.0	13.85	109
17	2.00	-4.00	1.00	1.00	70.0	7.62	109
18	3.00	-6.00	3.00	1.00	70.0	7.06	109
19	2.00	-6.00	4.00	1.00	97.0	11.41	109
20	-1.00	2.00	2.00	1.00	73.0	4.00	108
21	-6.00	0.00	7.00	1.00	91.0	7.97	108
22	-5.00	5.00	6.00	1.00	112.0	4.66	108
23	-3.00	-1.00	1.00	1.00	76.0	9.02	108
24	1.00	-4.00	3.00	1.00	82.0	5.33	109
25	-3.00	-9.00	3.00	1.00	64.0	7.22	108
26	4.00	-6.00	3.00	1.00	79.0	6.32	109
27	3.00	-1.00	3.00	1.00	79.0	8.21	109
28	7.00	-3.00	0.00	1.00	77.0	3.82	109
29	-1.00	-2.00	3.00	1.00	75.0	5.77	108
30	1.00	-5.00	6.00	1.00	96.0	2.16	109
31	6.00	2.00	5.00	1.00	79.0	3.98	
32	-3.00	1.00	1.00	1.00	72.0	4.14	108
33	3.00	-5.00	0.00	1.00	85.0	10.13	109
34	3.00	-4.00	-4.00	1.00	114.0	18.97	109
35	-6.00	-7.00	0.00	1.00	68.0	3.99	108
36	-6.00	-3.00	1.00	1.00	67.0	4.47	108
37	-4.00	2.00	7.00	1.00	68.0	4.19	108
38	0.00	-2.00	-3.00	1.00	66.0	2.84	109
39	-7.00	2.00	-4.00	1.00	84.0	3.31	108
40	-6.00	-3.00	2.00	1.00	70.0	2.31	108
41	-7.00	-3.00	5.00	1.00	77.0	2.38	108
42	1.00	0.00	6.00	1.00	74.0	1.85	
43	0.00	-5.00	-3.00	1.00	90.0	2.12	109

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
44	-1.00	-4.00	3.00	1.00	88.0	3.11	108
45	-9.00	-2.00	9.00	1.00	100.0	3.74	108
46	-2.00	3.00	-4.00	1.00	98.0	2.90	108
47	-2.00	-4.00	1.00	1.00	70.0	4.77	108
48	4.00	-8.00	2.00	1.00	96.0	5.22	109
49	-6.00	-7.00	-6.00	1.00	99.0	13.28	108
50	0.00	-1.00	-3.00	1.00	97.0	16.05	109
51	5.00	2.00	-1.00	1.00	94.0	6.39	110
52	6.00	-2.00	2.00	1.00	88.0	7.77	109
53	-6.00	-1.00	1.00	1.00	87.0	4.77	108
54	-1.00	-1.00	-1.00	1.00	104.0	8.36	108
55	2.00	1.00	0.00	1.00	94.0	7.48	
56	-2.00	-7.00	-2.00	1.00	63.0	1.92	108
57	3.00	0.00	0.00	1.00	64.0	4.07	
58	8.00	0.00	1.00	1.00	63.0	3.73	
59	-4.00	-3.00	0.00	1.00	66.0	3.37	108
60	-4.00	-9.00	1.00	1.00	61.0	2.95	108
61	-6.00	-4.00	5.00	1.00	63.0	4.58	108
62	2.00	-6.00	-3.00	1.00	93.0	9.44	109
63	0.00	0.00	-3.00	1.00	71.0	2.96	110
64	-7.00	-7.00	-3.00	1.00	101.0	6.41	108
65	0.00	-4.00	-1.00	1.00	84.0	6.40	109
66	-2.00	-10.00	0.00	1.00	91.0	4.71	108
67	10.00	-5.00	4.00	1.00	70.0	4.58	109
68	-1.00	-7.00	-1.00	1.00	76.0	5.51	108
69	9.00	-4.00	3.00	1.00	73.0	1.77	109
70	4.00	-2.00	-2.00	1.00	75.0	2.82	109
71	-2.00	-7.00	1.00	1.00	90.0	5.83	108
72	-2.00	-7.00	11.00	1.00	90.0	1.58	108
73	7.00	-3.00	2.00	1.00	69.0	2.71	109
74	-1.00	3.00	3.00	1.00	84.0	2.70	108
75	0.00	-4.00	-2.00	1.00	77.0	4.56	109
76	7.00	-5.00	0.00	1.00	78.0	12.02	109
77	-6.00	-3.00	-4.00	1.00	64.0	5.58	108
78	-1.00	-7.00	-1.00	1.00	74.0	3.69	108
79	2.00	-1.00	2.00	1.00	81.0	5.64	109
80	2.00	-1.00	-3.00	1.00	84.0	12.42	109
81	1.00	2.00	8.00	1.00	96.0	12.73	
82	1.00	1.00	0.00	1.00	78.0	12.63	
83	1.00	-4.00	-5.00	1.00	72.0	7.41	109
84	4.00	-4.00	4.00	1.00	78.0	5.04	109
85	-2.00	-1.00	-2.00	1.00	78.0	8.28	108
86	1.00	1.00	1.00	1.00	65.0	3.19	
87	-2.00	-6.00	14.00	1.00	79.0	3.54	108
88	2.00	-2.00	-3.00	1.00	80.0	7.76	109
89	0.00	-3.00	0.00	1.00	76.0	2.97	109
90	-7.00	-4.00	-3.00	1.00	87.0	6.57	108
91	-7.00	1.00	-4.00	1.00	82.0	5.19	108
92	7.00	-6.00	0.00	1.00	73.0	2.35	109
93	-1.00	-9.00	3.00	1.00	82.0	5.72	108
94	2.00	-4.00	5.00	1.00	74.0	2.22	109
95	-4.00	-4.00	-1.00	1.00	68.0	3.10	108
96	-5.00	2.00	3.00	1.00	79.0	2.56	108

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
97	2.00	-5.00	3.00	1.00	80.0	3.22	109
98	0.00	-3.00	4.00	1.00	70.0	1.97	109
99	1.00	-1.00	0.00	1.00	78.0	5.61	109
100	3.00	-4.00	4.00	1.00	68.0	3.34	109
101	0.00	-2.00	3.00	1.00	75.0	1.83	109
102	0.00	1.00	3.00	1.00	78.0	3.33	
103	4.00	-9.00	1.00	1.00	74.0	2.39	109
104	6.00	0.00	6.00	1.00	69.0	1.84	
105	-1.00	-5.00	3.00	1.00	64.0	9.96	108
106	-2.00	-3.00	6.00	1.00	68.0	4.12	108
107	0.00	-6.00	-2.00	1.00	66.0	5.62	109
108	7.00	-9.00	-1.00	1.00	73.0	4.08	109
109	7.00	0.00	-7.00	1.00	77.0	2.72	110
110	-1.00	7.00	-5.00	1.00	87.0	9.72	108
111	0.00	-3.00	-6.00	1.00	79.0	11.69	109
112	-4.00	-5.00	0.00	1.00	83.0	9.00	108
113	0.00	-6.00	6.00	1.00	86.0	7.90	109
114	-1.00	-4.00	11.00	1.00	87.0	4.35	108
115	-5.00	3.00	0.00	1.00	130.0	13.19	108
116	-1.00	-10.00	10.00	1.00	90.0	5.26	108
117	4.00	-1.00	3.00	1.00	89.0	6.98	109
118	-9.00	-7.00	3.00	1.00	82.0	9.53	108
119	3.00	0.00	-6.00	1.00	99.0	5.16	110
120	8.00	4.00	0.00	1.00	93.0	3.47	
121	6.00	-4.00	3.00	1.00	103.0	7.67	109
122	-4.00	0.00	2.00	1.00	94.0	12.56	108
123	7.00	10.00	2.00	1.00	90.0	3.79	
124	2.00	-4.00	-8.00	1.00	78.0	22.07	109
125	-1.00	-3.00	0.00	1.00	77.0	8.21	108
126	6.00	-6.00	1.00	1.00	89.0	22.37	109
128	7.00	3.00	7.00	1.00	82.0	9.81	
129	1.00	4.00	3.00	1.00	88.0	9.50	108

POWERFAIL RECOVERY

FRI 13 MAR 1998 20:12

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USER: 5 ID:5 PRESET TIME: 1.00 MON 16 MAR 1998 07:25
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 BCR:N RESS:N
 H#: 1 AQC:Y QCF:N RCM:Y
 RCM-TIME: 0.10 INT:999.95
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 2-LL:400 UL: 670 2SIGMA: 2.00 BKG SUB: 14.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 3-LL:670 UL:1000 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR:Q 1.00000
 HALF LIFE(DAYS):N

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
127 1	-4.00	-4.00	2.00	1.00	80.0	4.92	108
128 2	0.00	-1.00	1.00	1.00	83.0	8.93	109
129 3	0.00	-1.00	-1.00	1.00	87.0	5.40	109
130 4	-3.00	-2.00	4.00	1.00	70.0	4.66	108
131 5	-6.00	-6.00	2.00	1.00	86.0	8.25	108
132 6	-4.00	-3.00	2.00	1.00	96.0	5.39	108
133 7	-1.00	3.00	5.00	1.00	107.0	4.38	108
134 8	5.00	0.00	5.00	1.00	72.0	4.89	
135 9	-2.00	-5.00	-5.00	1.00	85.0	7.08	108
136 10	-4.00	-1.00	1.00	1.00	103.0	7.25	108
137 11	5.00	-2.00	-1.00	1.00	80.0	2.67	109
138 12	-4.00	-1.00	-4.00	1.00	89.0	6.40	108
139 13	8.00	2.00	4.00	1.00	96.0	3.96	
140 14	9.00	-6.00	3.00	1.00	75.0	2.92	109
141 15	-5.00	2.00	2.00	1.00	91.0	5.02	108
142 16	-2.00	-5.00	-1.00	1.00	88.0	5.60	108
143 17	-1.00	-7.00	4.00	1.00	63.0	4.58	108
144 18	1.00	-1.00	-1.00	1.00	67.0	4.29	109
145 19	1.00	-1.00	-3.00	1.00	65.0	3.04	109
146 20	2.00	-2.00	4.00	1.00	72.0	2.46	109
147 21	5.00	-6.00	1.00	1.00	62.0	2.07	109
148 22	-1.00	-3.00	-2.00	1.00	68.0	3.36	108
149 23	-2.00	1.00	-1.00	1.00	71.0	4.11	108
150 24	-8.00	1.00	0.00	1.00	98.0	8.64	108
151 25	-2.00	-2.00	-3.00	1.00	67.0	8.62	108
152 26	2.00	-4.00	1.00	1.00	83.0	3.21	109
153 27	0.00	-8.00	-1.00	1.00	67.0	8.69	109
154 28	-5.00	-1.00	10.00	1.00	88.0	3.72	108
155 29	5.00	-2.00	3.00	1.00	85.0	3.34	109
156 30	-1.00	-5.00	5.00	1.00	123.0	5.79	108
157 31	68.00	123.00	-4.00	1.00	134.0	1.96	110
158 32	-1.00	5.00	1.00	1.00	73.0	3.79	108
159 33	-6.00	-1.00	-1.00	1.00	90.0	3.58	108
160 34	2.00	-6.00	2.00	1.00	113.0	5.67	109
161 35	3.00	0.00	4.00	1.00	102.0	4.89	
162 36	-1.00	-2.00	2.00	1.00	64.0	2.40	108
163 37	-1.00	-5.00	2.00	1.00	64.0	1.86	108
164 38	2.00	0.00	5.00	1.00	65.0	2.19	
165 39	-5.00	-7.00	-1.00	1.00	69.0	4.66	108
166 40	6.00	-4.00	9.00	1.00	61.0	2.11	109
167 41	-3.00	-6.00	-4.00	1.00	63.0	3.40	108
168 42	-2.00	4.00	-5.00	1.00	76.0	3.92	108
169 43	2.00	-2.00	0.00	1.00	70.0	2.61	109

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
044	-2.00	-4.00	3.00	1.00	67.0	4.37	108
171 45	1.00	0.00	1.00	1.00	77.0	2.49	
172 46	-5.00	-5.00	3.00	1.00	76.0	3.29	108
173 47	-2.00	-3.00	9.00	1.00	79.0	3.93	108
174 48	-2.00	-10.00	-1.00	1.00	62.0	4.33	108
175 49	3.00	-3.00	0.00	1.00	72.0	7.79	109
176 50	-4.00	-6.00	-4.00	1.00	73.0	7.54	108
177 51	10.00	31.00	8.00	1.00	78.0	1.79	
178 52	0.00	5.00	1.00	1.00	78.0	2.79	
179 53	2.00	-5.00	5.00	1.00	74.0	2.85	109
180 54	-3.00	-4.00	1.00	1.00	72.0	5.71	108
181 55	1.00	-4.00	-2.00	1.00	80.0	3.84	109
182 56	-5.00	-2.00	4.00	1.00	78.0	5.96	108
183 57	9.00	16.00	3.00	1.00	88.0	2.66	
184 58	-4.00	1.00	-4.00	1.00	77.0	2.37	108
185 59	4.00	0.00	-3.00	1.00	72.0	2.79	110
186 60	-1.00	0.00	0.00	1.00	73.0	1.51	108
187 61	3.00	-3.00	0.00	1.00	104.0	2.02	109
188 62	-2.00	0.00	0.00	1.00	93.0	1.74	108
189 63	-1.00	-6.00	-3.00	1.00	67.0	2.35	108
190 64	-1.00	-5.00	1.00	1.00	72.0	14.25	108
191 65	3.00	-5.00	3.00	1.00	75.0	2.08	109
192 66	6.00	-4.00	10.00	1.00	100.0	10.63	109
193 67	-1.00	-1.00	-4.00	1.00	67.0	3.50	108
194 68	-2.00	-6.00	2.00	1.00	72.0	3.28	108
195 69	-3.00	7.00	-1.00	1.00	83.0	4.60	108
196 70	-3.00	1.00	-3.00	1.00	82.0	9.77	108
197 71	3.00	-2.00	-1.00	1.00	76.0	2.69	109
198 72	-2.00	-8.00	0.00	1.00	89.0	5.94	108
199 73	-1.00	0.00	0.00	1.00	79.0	5.67	108
200 74	1.00	-5.00	-2.00	1.00	82.0	4.23	109
201 75	2.00	-6.00	4.00	1.00	76.0	2.82	109
202 76	-2.00	-7.00	3.00	1.00	67.0	1.61	108
203 77	2.00	-6.00	-1.00	1.00	65.0	2.84	109
204 78	-1.00	-7.00	-2.00	1.00	69.0	2.27	108
205 79	1.00	-9.00	3.00	1.00	64.0	5.11	109
206 80	8.00	-3.00	-1.00	1.00	70.0	2.34	109
207 81	-7.00	2.00	7.00	1.00	79.0	5.70	108
208 82	-3.00	-2.00	1.00	1.00	75.0	6.01	108
209 83	-3.00	-8.00	3.00	1.00	83.0	5.82	108
210 84	-6.00	-2.00	0.00	1.00	66.0	2.99	108
211 85	-2.00	-7.00	14.00	1.00	76.0	4.81	108
212 86	-2.00	-5.00	1.00	1.00	68.0	4.16	108
213 87	13.00	57.00	-1.00	1.00	94.0	1.85	110
214 88	-2.00	-6.00	1.00	1.00	65.0	3.43	108
215 89	3.00	4.00	7.00	1.00	67.0	1.40	
216 90	0.00	1.00	-2.00	1.00	72.0	1.89	110
217 91	-6.00	0.00	2.00	1.00	67.0	2.03	108
218 92	-3.00	-2.00	6.00	1.00	88.0	3.87	108
219 93	6.00	1.00	3.00	1.00	66.0	2.27	
220 94	3.00	-10.00	-1.00	1.00	63.0	2.31	108
221 95	-8.00	-1.00	-2.00	1.00	70.0	4.65	108
222 96	5.00	0.00	-6.00	1.00	112.0	5.13	110

10

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
97	2.00	-2.00	-3.00	1.00	98.0	5.74	109
224 98	-4.00	8.00	-6.00	1.00	120.0	9.89	108
225 99	-7.00	-9.00	0.00	1.00	95.0	7.39	108
226 100	-4.00	1.00	-2.00	1.00	109.0	5.71	108
227 101	10.00	7.00	-5.00	1.00	115.0	8.10	110
228 102	3.00	4.00	0.00	1.00	111.0	7.02	
229 103	-6.00	-4.00	1.00	1.00	72.0	3.04	108
b 330 104 230	3.00	-8.00	-2.00	1.00	75.0	2.66	109
304 105 231	-8.00	-4.00	0.00	1.00	86.0	7.44	108
307 106 232	2.00	1.00	3.00	1.00	114.0	3.91	
208 107 233	-1.00	-4.00	-4.00	1.00	68.0	4.88	108
304 108 234	-5.00	-7.00	-3.00	1.00	65.0	5.54	108
305 109 235	-1.00	-8.00	5.00	1.00	69.0	1.45	108
306 110 236	-3.00	-2.00	-2.00	1.00	69.0	11.13	108
307 111 237	-1.00	-6.00	-3.00	1.00	64.0	6.26	108
308 112 238	7.00	-5.00	4.00	1.00	73.0	4.50	109
309 113 239	2.00	1.00	3.00	1.00	73.0	3.04	
310 114 240	6.00	-5.00	3.00	1.00	78.0	7.14	109
311 115 241	4.00	-3.00	-4.00	1.00	77.0	6.90	109
312 116 242	2.00	-2.00	-4.00	1.00	66.0	9.45	109
313 117 243	6.00	-3.00	2.00	1.00	77.0	5.14	109
314 118 244	4.00	2.00	-1.00	1.00	79.0	7.80	110
315 119 245	1.00	-2.00	2.00	1.00	78.0	8.28	109
216 120 246	7.00	-4.00	4.00	1.00	79.0	5.40	109
317 121 247	1.00	2.00	6.00	1.00	76.0	4.81	
222 122 248	-2.00	-1.00	-3.00	1.00	87.0	28.57	108
314 123 249	3.00	-4.00	3.00	1.00	89.0	9.98	109
320 124 250	-4.00	-4.00	-1.00	1.00	72.0	12.09	108
b 321 125 251	-3.00	-4.00	12.00	1.00	82.0	6.68	108

INTERRUPTED ON MON 16 MAR 1998 10:44

RESUMED AUTO ON MON 16 MAR 1998 11:16

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
252 126	1.00	0.00	3.00	1.00	90.0	13.86	
253 127	1.00	2.00	-1.00	1.00	86.0	9.56	110
254 128	2.00	2.00	-5.00	1.00	84.0	8.22	110
255 129	5.00	-2.00	5.00	1.00	66.0	5.76	109
256 130	1.00	1.00	4.00	1.00	73.0	5.54	
257 131	-8.00	-5.00	7.00	1.00	73.0	8.50	108
258 132	-5.00	-4.00	-5.00	1.00	71.0	14.32	108
259 133	2.00	-3.00	-3.00	1.00	67.0	8.96	109
260 134	4.00	-1.00	3.00	1.00	78.0	9.74	109
261 135	6.00	-4.00	3.00	1.00	78.0	7.58	109
262 136	-3.00	-4.00	5.00	1.00	86.0	7.98	108
263 137	1.00	-2.00	4.00	1.00	79.0	7.00	109
264 138	7.00	-5.00	-4.00	1.00	78.0	7.23	109
265 139	-5.00	1.00	2.00	1.00	78.0	11.53	108
266 140	-2.00	-5.00	2.00	1.00	70.0	14.31	108
267 141	1.00	-1.00	2.00	1.00	80.0	10.40	109
268 142	9.00	1.00	7.00	1.00	73.0	7.04	
269 143	-1.00	-5.00	1.00	1.00	71.0	7.98	108
270 144	0.00	4.00	3.00	1.00	84.0	9.28	
271 145	12.00	-5.00	10.00	1.00	77.0	33.33	109
272 146	4.00	4.00	7.00	1.00	71.0	5.85	
273 147	6.00	5.00	-5.00	1.00	79.0	13.90	110
274 148	6.00	-7.00	0.00	1.00	83.0	14.09	109
275 149	6.00	1.00	4.00	1.00	83.0	13.04	
276 150	7.00	2.00	2.00	1.00	77.0	12.03	
277 151	-1.00	0.00	-4.00	1.00	83.0	20.40	108
278 152	5.00	0.00	2.00	1.00	86.0	10.87	
279 153	9.00	-2.00	7.00	1.00	84.0	6.15	109
280 154	-6.00	-2.00	-1.00	1.00	83.0	14.33	108
281 155	-1.00	-4.00	4.00	1.00	97.0	15.09	108

SER: 5 ID:5 PRESET TIME: 1.00 MON 16 MAR 1998 12:37
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N
 H#: 1 AQC:Y QCF:N RCM:Y
 RCM-TIME: 0.10 INT:999.95
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 2-LL:400 UL: 670 2SIGMA: 2.00 BKG SUB: 14.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 3-LL:670 UL:1000 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR:Q 1.00000
 HALF LIFE(DAYS):N

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
282 1	142.00	19.00	-2.00	1.00	110.0	65.23	110
283 2	1.00	-2.00	-2.00	1.00	75.0	12.96	109
284 3	9.00	-2.00	6.00	1.00	80.0	5.44	109
285 4	3.00	-5.00	7.00	1.00	82.0	4.16	109
286 5	2.00	0.00	5.00	1.00	81.0	3.52	
287 6	6.00	0.00	-1.00	1.00	63.0	4.49	110
288 7	-3.00	-5.00	13.00	1.00	69.0	5.71	108
289 8	1.00	-8.00	3.00	1.00	69.0	4.43	109
290 9	7.00	-7.00	1.00	1.00	70.0	4.98	109
291 10	0.00	-3.00	-5.00	1.00	62.0	5.78	109
292 11	-4.00	-1.00	5.00	1.00	78.0	5.77	108
293 12	0.00	-1.00	4.00	1.00	72.0	4.66	109
294 13	6.00	1.00	4.00	1.00	69.0	2.90	
295 14	-1.00	1.00	7.00	1.00	85.0	8.28	108
296 15	-4.00	-4.00	1.00	1.00	78.0	5.11	108
297 16	13.00	-5.00	1.00	1.00	119.0	15.06	109
298 17	5.00	-5.00	2.00	1.00	63.0	3.54	109
299 18	3.00	-5.00	3.00	1.00	76.0	6.65	109
300 19	7.00	35.00	-3.00	1.00	78.0	3.05	110
301 20	-3.00	-3.00	6.00	1.00	140.0	5.17	108
302 21	-2.00	-1.00	-4.00	1.00	139.0	15.60	108
303 22	-4.00	-4.00	5.00	1.00	72.0	2.86	108
304 23	-6.00	-5.00	-4.00	1.00	67.0	9.65	108
305 24	-1.00	-4.00	4.00	1.00	61.0	2.65	108
306 25	-3.00	2.00	11.00	1.00	88.0	2.35	108
307 26	-1.00	-2.00	8.00	1.00	62.0	3.90	108
308 27	1.00	3.00	3.00	1.00	60.0	2.85	
309 28	7.00	-4.00	7.00	1.00	74.0	4.62	109
310 29	-1.00	5.00	1.00	1.00	66.0	5.65	108
311 30	8.00	-3.00	-4.00	1.00	75.0	3.46	109
312 31	-4.00	-4.00	-1.00	1.00	100.0	3.39	108
313 32	6.00	-7.00	-2.00	1.00	69.0	7.13	109
314 33	6.00	1.00	10.00	1.00	79.0	2.10	
315 34	6.00	-1.00	9.00	1.00	77.0	5.65	109
316 35	6.00	-4.00	3.00	1.00	74.0	2.86	109
317 36	1.00	3.00	1.00	1.00	127.0	14.70	
318 37	-2.00	0.00	11.00	1.00	78.0	2.01	108
319 38	-10.00	-3.00	-1.00	1.00	83.0	6.32	108
320 39	23.00	52.00	1.00	1.00	68.0	1.55	
321 40	4.00	2.00	4.00	1.00	62.0	2.33	

SER: 5 ID:5 PRESET TIME: 1.00 MON 16 MAR 1998 12:05
 SAMPLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N
 H#: 1 AQC:Y QCF:N RCM:Y
 RCM-TIME: 0.10 INT:999.95
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 2-LL:400 UL: 670 2SIGMA: 2.00 BKG SUB: 14.00 BKG 2SIG: 2.00 LSR: 0
 CHANNEL 3-LL:670 UL:1000 2SIGMA: 2.00 BKG SUB: 15.00 BKG 2SIG: 2.00 LSR: 0
 DATA CALC: CPM, UNKNOWN REPLICATES: 1 NORM FACTOR:Q 1.00000
 HALF LIFE(DAYS):N

SAM	CPM1	CPM2	CPM3	TIME	AVG H#	RCM%	ERR
321	184.00	37.00	-5.00	1.00	104.0	85.30	110
323	2.00	-5.00	4.00	1.00	61.0	5.15	109
324	5.00	8.00	-3.00	1.00	59.0	3.00	110
325	0.00	-2.00	6.00	1.00	60.0	8.03	109
326	3.00	3.00	2.00	1.00	60.0	7.72	
327	-1.00	-12.00	-1.00	1.00	66.0	11.44	108
328	6.00	-5.00	1.00	1.00	72.0	10.73	109
329	0.00	1.00	-3.00	1.00	75.0	10.11	110
330	11.00	10.00	5.00	1.00	87.0	11.24	
331	15.00	-3.00	4.00	1.00	74.0	19.25	109
332	9.00	-3.00	0.00	1.00	70.0	32.36	109
333	1.00	1.00	2.00	1.00	77.0	18.17	
334	4.00	-2.00	-1.00	1.00	79.0	15.23	109
335	-1.00	-3.00	5.00	1.00	70.0	16.11	108
336	2.00	-1.00	4.00	1.00	90.0	16.61	109
337	7.00	-1.00	-1.00	1.00	61.0	7.03	109
338	7.00	0.00	6.00	1.00	65.0	10.44	
339	13.00	-6.00	6.00	1.00	61.0	4.98	109
340	1.00	-3.00	-6.00	1.00	64.0	5.67	109

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Protocol #: 15

H-3/14-C DPM

User :

Time: 1.00

Data Mode: Dual DPM

Nuclides: 3H-14C

Quench Sets

Low Energy: 3H

High Energy: 14C

Background Subtract: Manual

	LL	UL	LCR	2S%	BKG
Region A:	0.0 - 12.0		0	0.0	10.00
Region B:	12.0 - 156		0	0.0	10.00
Region C:	0.0 - 0.0		0	0.0	0.00

Quench Indicator: tSIE/AEC

Ext Std Terminator: Count

S#	TIME	CPMA	CPMB	DPM1	DPM2	SIS	tSIE	FLAG
1	1.00	142.00	7.00	305.68*	0.00	13.605	533.05	<i>Low case</i>
2	1.00	14.00	4.00	28.16	3.11	39.449	564.11	
3	1.00	158.00	21.00	336.44	4.94	16.276	531.83	