



NMSB1

December 20, 2006

*In alliance with
The University of Vermont*

Nuclear Materials Safety Section
Division of Radiation Safety and Safeguards
United States Nuclear Regulatory Commission Region I
475 Allendale Road
King of Prussia, PA 19406

RE: Fletcher Allen Health Care
License # 44-10187-03

030 03289

Please amend our radioactive materials license to remove the radioimmunoassay lab. Final surveys and wipe tests of the decommissioned area are attached.

A. Remove the chemistry lab in the new lab area located in the Ambulatory Care Center, which was described in Item C of the letter of June 16, 2006. The lab had been utilizing two radioimmunoassay kits, with a total on-hand maximum activity of 100 microcuries of I-125. These have now been replaced with non radioactive versions, effective December 11, 2006. All remaining radioactive materials and contaminated waste have been removed to the radioactive waste area for decay in storage. Following a final contamination survey and wipe tests all signage has been removed. The final wipe tests, which include both the one performed by the lab staff and that performed by the RSO, and exposure survey of the Ambulatory Care Center lab are attached.

B. Please remove Item 6 H entirely, as we will no longer use these prepackaged kits.

C. Please remove Mary Tang, M.D. for In Vitro studies.

Thank you for your attention to this. If you have questions please contact Marleen M. Moore, M.S., Radiation Safety Officer, at (802) 847-3506. All correspondence should be copied to Marleen Moore, M.S., Shepardson 2

Sincerely,

Angeline Marano
Chief Operating Officer
Fletcher Allen Health Care

Marleen M. Moore, M.S.
Radiation Safety Officer and Authorized Medical Physicist
Fletcher Allen Health Care

removed sink labels, refrig label
 waste can defaced Notice to Workers

WIPE TESTS
 & SURVEY
 RSD

Survey of RIA lab.
 December 19, 2006

All records of use, disposal and surveys removed to Rad Safety Office.

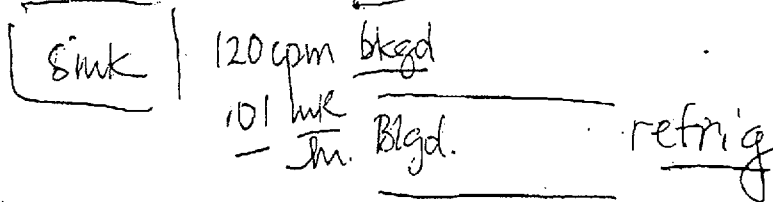
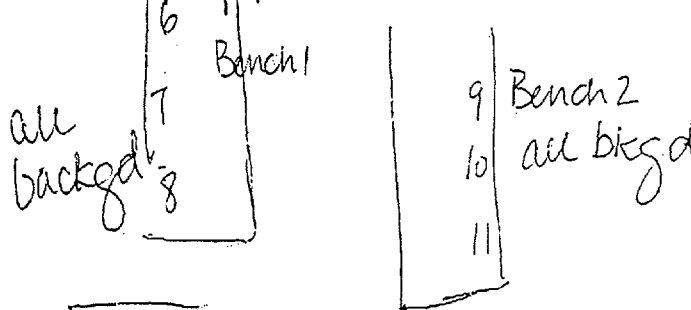
All materials have been moved to Smith 1 Basement for decay storage.

(bags waste) - entered in Smith basement inventory

Other: All kits were used & disposed of. (end cap removed)

Survey with Ludlum 14C GM (cal 10/10/06)

with end cap removed



Wipe test of work areas:

Location	Reading	Location	Reading
1. frig shelf	see	8. bench front	
2. frig shelf above	attached sheet	9. bench 2 s.	
3. frig door		10. b.	
4. sink handle		11. front	
5. sink drain & surround		12. phone at bench 2	
6. bench side		13. counter skin.	
7. bench back		14.	
Background (15.)	(16.)	(17.)	

MMoore 12/19/2006

Manual Report

Counting Results

	DATE	DETECTOR	ISOTOPE	ENERGY (kev)	TIME (sec)	ROI COUNTS	ROI CPM	Net dpm
Bkg	12/20/06 12:44	Well	Wide	20 to 1499	60	301	301	—
1	12/20/06 12:46	Well	Wide	20 to 1499	60	336	336	—
2	12/20/06 12:47	Well	Wide	20 to 1499	60	356	356	50
3	12/20/06 12:51	Well	Wide	20 to 1499	60	374	374	95
4	12/20/06 12:52	Well	Wide	20 to 1499	60	340	340	—
5	12/20/06 01:03	Well	Wide	20 to 1499	60	359	359	57
6	12/20/06 01:04	Well	Wide	20 to 1499	60	358	358	56
7	12/20/06 01:06	Well	Wide	20 to 1499	60	368	368	80
8	12/20/06 01:08	Well	Wide	20 to 1499	60	329	329	—
9	12/20/06 01:10	Well	Wide	20 to 1499	60	361	361	63
10	12/20/06 01:11	Well	Wide	20 to 1499	60	355	355	50
11	12/20/06 01:13	Well	Wide	20 to 1499	60	358	358	56
12	12/20/06 01:15	Well	Wide	20 to 1499	60	361	361	63
13	12/20/06 01:16	Well	Wide	20 to 1499	60	343	343	18
Bkg	12/20/06 01:18	Well	Wide	20 to 1499	60	343	343	—
Bkg	12/20/06 01:20	Well	Wide	20 to 1499	60	336	336	—
Bkg	12/20/06 01:25	Well	Wide	20 to 1499	60	362	362	—

Technologist:

Comments: COUNTS 1,15,16,17 ARE BACKGROUND. ALL OTHERS IN ORDER ON SHEET
RIA LAB WIPE TESTS AFTER REMOVAL OF ALL I-125

Avg Bkgd. 336 cpm. \pm 2SD range of bkgd is 299 - 373
Using counting efficiency of 2.5
All less than 200 dpm, all within 2SD range

R80
Physician: Maureen Moore Date: 12/20/06

WIPE TESTS BY LAB

OS

The Final
CONTAMINATION SURVEY

Accept

NAME *Pat*
DATE *12/21/06*

Window Setting: I125
Area Tested: 100 sq.cm.

TUBE	LOCATION	CPM	DPM
1	BLANK	21.9	
2	SINK	21.9	0
3	SINK COUNTER	21.9	0
4	H2O BATH		
5	MULTIVORTEX	6.6	0
6	REFRIG. LFT. BOTTOM	12.2	0
7	REFRIG. RT. BOTTOM	14.0	0
8	UE3 BENCH	14.0	0
9	CYCLO BENCH	14.0	0
10	SORVALL CENT.	24.9	5
11	SCIN. COUNTER	24.9	6
12	BLANK	21.9	0

THE MOST RECENT CALIBRATIONS GIVE THE FOLLOWING COUNTING EFFICIENCIES FOR THE GAMMA COUNTER:

I125 - 63.4%

TO BE CONSERVATIVE, A FACTOR OF 2 SHOULD BE USED TO CONVERT CPM TO DPM.

$$DPM = 2 \times (CPM - \text{AVERAGE BACKGROUND})$$

NOTE: IF BACKGROUND EXCEEDS CPM, ENTER 0 FOR DPM.

DECONTAMINATE AREA AND RETEST IF DPM EXCEEDS 200
NOTE DECONTAMINATION RESULTS ON THIS WORKSHEET
NOTIFY RADIATION SAFETY OFFICE IF DPM EXCEEDS 20,000

Dec 2006 14:44
 otocol #: 3

Packard Instrument Company
 CONT SURVEY

Page #1
 User :

Time(minutes): 1.00
 Assay Type: CPM
 Background Subtract : No
 Outlier: 5.0 FLAG
 Screening: OFF

Window A _____
 Nuclide: I-125
 Half Life(hours): 0.00
 Multiplier: 1.0000
 %CV Flag Limit: 0.00

SR	A:CPM	A:%ERR	B:CPM	B:%ERR	A:ERROR	CCPM RESULT	PAT/ID
1	21.9	21.4	0.0			21.900	SAMPLE 1
2	20.9	21.9	0.0			20.905	SAMPLE 2
3	21.9	21.4	0.0			21.900	SAMPLE 3
4	20.5	22.1	0.0			20.460	SAMPLE 4
5	6.6	39.1	0.0			6.553	SAMPLE 5
6	12.2	28.6	0.0			12.228	SAMPLE 6
7	14.0	26.7	0.0			14.000	SAMPLE 7
8	14.0	26.7	0.0			14.000	SAMPLE 8
9	14.0	26.7	0.0			14.000	SAMPLE 9
10	24.4	20.3	0.0			24.379	SAMPLE 10
11	24.9	20.1	0.0			24.865	SAMPLE 11
12	21.9	21.4	0.0			21.882	SAMPLE 12
13	15.9	25.1	0.0			15.895	SAMPLE 13
14	20.9	21.9	0.0			20.862	SAMPLE 14
15	29.9	18.3	0.0			29.893	SAMPLE 15

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

12/20/2006, and to inform you that the initial processing which includes an administrative review has been performed.

AMEND. 44-10187-03
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** 139872.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.