



80 SEYMOUR STREET  
 P.O. BOX 5037  
 HARTFORD, CT 06102-5037  
 860/545-5000

NMSBL

To: USNRC, Region I Office  
 NMSB - Medical Licensing  
 475 Allendale Road  
 King of Prussia, PA 19406

March 28, 2008

03001239

Re: Additional Information for an Amendment Requested to Materials License # 06-00253-04

Dear Ms. Henderson:

This letter is a followup to our earlier conversations regarding the February 28 amendment request to de-list Hartford Hospital as a "Research and Development" licensee. On our Materials License, items "H thru P" are identified as research material.

I reviewed the final entries in the research logs; both for laboratory experiments and for the animal experiments. I was mistaken in believing it had been 10 years since last we had these research projects.

- A. The animal based studies employed Tc-99m for cardiac imaging and were finished in December 2001.
- B. Laboratory in-vitro work employing < 3.5 mCi In-111 last received material in November 1994.
- C. Laboratory in-vitro work employing < 5 uCi I-125 last received material in February 1998.
- D. Laboratory in-vitro work employing 0.25 mCi H-3 last received material in May 2001.
- E. Laboratory in-vitro work employing < 5 mCi I-123 last received material in July 2002.

Of the project radioactive material listed above, the only reagent that could still be detected today is the H-3. We no longer have liquid scintillation counters in operation at Hartford Hospital but I enlisted the help of the Radiation Safety Office at the University of CT Health Center in Farmington. Fourteen filter paper wipes were taken at the technician's desk, several counter top work spaces, the storage room, the sink, the incubator unit, the beta-shield and the refrigerator.

Ambient radiation level surveys of the research labs did not find any site with greater than background radiation level (0.02 - 0.04 mR/hr). I have enclosed Mr. Andres Sinisterra's assessment of the 14 filter paper wipes I took of the laboratory space that had use of H-3; essentially the area shows no contamination by H-3.

Regarding the small activity Cs-137 calibrator that was purchased in 1982 for the purpose of calibrating survey meters: if the License Fees Branch accepts this on our license without

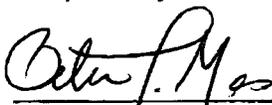
142255

imposing an additional fee, then we would like to keep it in use. But if not, then it will remain in storage until a buyer, a licensed recipient, or a disposal service is arranged.

If you have any questions or desire additional information, please contact me at (860) 545-2676. I can also be paged throughout the hospital if not immediately available.

Thank you for your time and efforts with this matter.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Peter J. Mas". The signature is written in a cursive style with a horizontal line underneath.

Peter J. Mas, MS, DABMP  
Health Physicist & RSO

**Peter Mas - Survey results**

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**From:** "Sinisterra, Andres"  
**To:** "MAS, PETER J."  
**Date:** 3/27/2008 2:11 PM  
**Subject:** Survey results  
**Attachments:**

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Que tal Pedro,

Here are the survey results for your samples.

Since we use 7ml mini vials, each sample was divided into two so each pair represents one area sample. I wanted to make sure I did not lose any counts from any sample. Our MDC is in dpm/100cm<sup>2</sup> and as you can see all samples are less than the calculated critical count level. The tritium window is in the first channel (0.0 to 18.8 keV).

Let me know if this is OK and if you need the original printout.

Best regards,

Andrés

**Andrés Sinisterra**

**Asst. Radiation Safety Officer for Medicine  
University of Connecticut Health Center  
263 Farmington Ave  
Farmington, CT 06032  
Mobile (860) 944-7912 Beeper (860) 825-7827 Tel: (860) 679-3200**



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Protocol #:13 Name:MANY NUCLIDES 26-Mar-00 13:37  
 Region A: LL-UL= 0.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00  
 Region B: LL-UL=18.6-145. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00  
 Region C: LL-UL=145.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00  
 Time = 5.00 QIP = tSIE ES Terminator = Count  
 WIPE TEST PROTOCOL FOR DECOMMISSIONING..MARSSIM

S#	TIME	CPMA	CPMB	CPMC	tSIE	A+B+C	A/SUM	B/SUM	C/SUM	sample location I.D.
1	5.00	4.20	3.60	5.40	373.	13.20	0.318	0.273	0.409	
Room 2	5.00	3.80	2.80	3.40	373.	10.00	0.380	0.280	0.340	> #1
IA 3	5.00	6.80	3.20	3.00	394.	13.00	0.523	0.246	0.231	> #2
4	5.00	4.60	4.20	5.00	341.	13.80	0.333	0.304	0.362	
5	5.00	4.40	4.20	4.00	342.	12.60	0.349	0.333	0.317	> #3
6	5.00	6.40	3.20	4.40	370.	14.00	0.457	0.229	0.314	
--(12 missing vials)--										
19	5.00	6.20	4.20	3.80	372.	14.20	0.437	0.296	0.268	> #4
Room 20	5.00	4.60	3.20	5.00	392.	12.80	0.359	0.250	0.391	
21	5.00	5.40	3.20	4.00	348.	12.60	0.429	0.254	0.317	> #5
Foyer 22	5.00	3.20	2.40	3.80	399.	9.40	0.340	0.255	0.404	
23	5.00	4.60	3.80	4.00	289.	12.40	0.371	0.306	0.323	> #6
24	5.00	4.40	3.20	2.60	289.	10.20	0.431	0.314	0.255	
--(12 missing vials)--										
37	5.00	4.60	3.20	4.40	352.	12.20	0.377	0.262	0.361	> #7
38	5.00	3.80	4.80	6.60	356.	15.20	0.250	0.316	0.434	
39	5.00	3.40	3.40	3.60	350.	10.40	0.327	0.327	0.346	> #8
40	5.00	5.60	4.80	3.00	399.	13.40	0.418	0.358	0.224	
41	5.00	6.00	2.80	5.00	359.	13.80	0.435	0.203	0.362	> #9
42	5.00	3.60	3.80	5.20	383.	12.60	0.286	0.302	0.413	
Room 43	5.00	4.40	5.20	4.80	360.	14.40	0.306	0.361	0.333	> #10
IB 44	5.00	5.60	2.80	3.60	301.	12.00	0.467	0.233	0.300	
45	5.00	4.60	4.20	3.60	344.	12.40	0.371	0.339	0.290	> #11
46	5.00	3.00	2.80	3.40	389.	9.20	0.326	0.304	0.370	
47	5.00	3.80	5.40	3.40	358.	12.60	0.302	0.429	0.270	> #12
48	5.00	5.20	3.60	4.40	297.	13.20	0.394	0.273	0.333	
49	5.00	2.80	3.60	4.60	369.	11.00	0.255	0.327	0.418	> #13
50	5.00	3.60	2.40	4.00	396.	10.00	0.360	0.240	0.400	
51	5.00	5.00	3.60	4.40	376.	13.00	0.385	0.277	0.338	> #14
52	5.00	3.40	2.80	2.80	386.	9.00	0.378	0.311	0.311	
--(4 missing vials)--										
57	5.00	8.40	4.00	4.00	341.	16.40	0.512	0.244	0.244	Background
58	5.00	9.00	5.00	3.00	336.	17.00	0.529	0.294	0.176	Background
--(1 missing vial)--										
60	5.00	12939.0	115941.	20198.6	266.	149078.	0.087	0.778	0.135	36 Cl STANDARD

CRITICAL COUNT = 25 cpm  
 MDC ~ 127 dpm/100cm<sup>2</sup> using 3H eff = 17%  
 All samples < critical count

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

3/28/2008, and to inform you that the initial processing which includes an administrative review has been performed.

Amend. 06-00253-04 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

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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** 142255.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.