



UNIVERSITY OF MARY WASHINGTON

The Centennial Celebration

January 5, 2009

Region I Office
Division of Nuclear Materials Safety
475 Allendale Road
King of Prussia, PA 19406-1415

MS 16

J-6

45-16818-01

03011686

Dear Mr. Lawyer:

I received your request for additional information in order to terminate our Materials License No. 48-16818-01 and will respond to each item below. I hope this information is sufficient to allow you to proceed with our request to terminate the license.

1. Additional Wipe Tests

As requested, I have conducted additional wipe tests in the radioisotope lab, Jepson 304, including samples from the floor. The room does not have a floor drain but I sampled the floor at five separate locations including areas by the lab counter, hood, sink and refrigerator. The results of these tests are as follows:

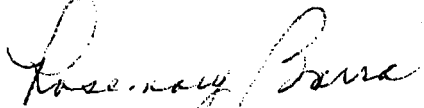
Location	CPM	DPM
Floor - 1 (by the counter)	27	42
Floor - 2 (by the counter)	9	14
Floor - 3 (by the sink)	31	49
Floor - 4 (by the hood)	16	25
Floor - 5 (by the refrigerator)	24	38
Counter - 1	16	25
Counter - 2	25	69
Counter - 3	13	20
Counter - 4	26	41
Counter - 5	30	47
Hood - 1	18	28
Hood - 2	23	36
Hood - 3	16	25
Hood - 4	13	20
Hood - 5	26	41
Sink - 1	18	28
Sink - 2	8	12
Sink - 3	16	25
Sink - 4	13	20
Sink - 5	15	23

I am also including copies of the surveys that were performed over the past two years.

2. Licensed material was last used for instructional purposes during the fall semester of 2005. H^3 -leucine was used in that experiment and radioisotopes have not been used in Jepson 304 after December 1, 2005.
3. In accordance with our license, the radioactive material was used in *in vitro* laboratory experiments. The experiments were performed in cultures involving μCi quantities of radioisotopes. The aqueous waste from these experiments was disposed of by release into the sanitary sewer as each experiment was conducted and the total amount of hydrogen-3 released per year was less than the limit of 5 curies. The possession limit on our license is 5 millicuries of hydrogen 3. The remaining 1.92 millicuries of hydrogen-3 labeled materials that we had in our inventory was disposed of as aqueous waste on December 8, 2008.

Please let me know if you need any additional information.

Sincerely,



Rosemary Barra, Ph.D.

Interim Dean, College of Arts and Sciences

RADIOISOTOPES WIPE TESTS

Location: Radioisotopes Lab - Jepson 304Date: May 2, 2008Type of Equipment Used: LS57TDName of Person Performing Survey: Rosemary BrownLevel of contamination Requiring Clean-up: 200dpm/100 cm²Efficiency of Counter: 110%

<u>Area of Survey</u>	<u>CPM</u>	<u>DPM</u>
Fume Hood	30	41
LS Counter	21	33
Counter Top	17	
Sink	21	26
Refrigerator	26	33
		41

RADIOISOTOPES WIPE TESTS

Location: Radioisotopes Lab - Jepson 304Date: 11/22/07Type of Equipment Used: LS 5050Name of Person Performing Survey: Frederick JonesLevel of contamination Requiring Clean-up: 200dpm/100 cm²Efficiency of Counter: 0

<u>Area of Survey</u>	<u>CPM</u>	<u>DPM</u>
Fume Hood	22	34
LS Counter	18	28
Counter Top	10	15
Sink	12	19
Refrigerator	8	12

RADIOISOTOPES WIPE TESTS

Location: Radioisotopes Lab - Jepson 304Date: 12/10/04Type of Equipment Used: LS 5272Name of Person Performing Survey: Rosemary BarrLevel of contamination Requiring Clean-up: 200dpm/100 cm²Efficiency of Counter: 3%

<u>Area of Survey</u>	<u>CPM</u>	<u>DPM</u>
Fume Hood	18	28
LS Counter	26	33
Counter Top	12	19
Sink	24	35
Refrigerator	16	12

RADIOISOTOPES WIPE TESTS

Location: Radioisotopes Lab - Jepson 304Date: 7/2/07Type of Equipment Used: LS 5000Name of Person Performing Survey: Rosemary BarraLevel of contamination Requiring Clean-up: 200dpm/100 cm²Efficiency of Counter: 61%

<u>Area of Survey</u>	<u>CPM</u>	<u>DPM</u>
Fume Hood	16	26
LS Counter	25	32
Counter Top	5	13
Sink	12	19
Refrigerator	12	19