



Manuel Serrano
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Certification # 7004 1160 00013294 T93 June 15, 2006
RRR

Ms. Elizabeth Ullrich
Licensing Assistance Team
Nuclear Materials Safety Branch
US Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

MS-16

Q-9

2006 JUN 22 AM 11: 59

RECEIVED
REGION I

**Re: Byproduct Material License Termination Request; License Number 29-10211-01 Final Status
Survey Report Follow-up**

Mail Control No.: 138080; Docket No.: 03005379

Dear Ms. Ullrich:

This is in reference to your letter dated April 12, 2006 requesting the following additional information:

- 1) The only licensed material used in our survey unit, which includes the instrument lab, wet lab and waste area- has been unsealed sources of 3-H and 14-C. We will continue to use these materials under the NRC's exempt quantity guidelines.
- 2) A 100% scan of our survey unit was conducted. The scan included all swiped areas as well as the floor, bench tops, sinks, lab hoods, drawers, walls and shelves. The scan results never exceeded background. Attached are the results from the 30 wipe tests as well as the measured scan readings.
- 3) This facility has identified and properly reported the leakage of two sealed 63-Ni sources. The leaking sources, managed under general licensing, were returned to the manufacturer as required. This facility will continue to use and manage 63-Ni sealed sources under the general licensing requirements and are not to be considered part of this specific license closure.

I hope the above information satisfies your request. Please contact me directly should you need further information.

Sincerely,

Manuel Serrano
Vice President
Global Chemical Operations

138080

Residual Radiation Levels-Completed 2/6/06, 5/12/06		
Sample Area	Area to Geiger/Scan & Swipe with Filter Paper	Geiger/Scan (mR/hr)*, **
1	Radioactive Materials Storage Cabinet Shelf	0.04
2	Lab bench top underneath the radioactive materials storage cabinet shelf	0.04
3	Floor directly in front of the bench-top	0.04
4	Inside the scintillation counter	0.04
5	Lab bench top the scintillation counter sits on	0.04
6	Floor directly in front of the bench-top the scintillation counter sits on	0.04
7	Floor of doorway in Lab 3 heading out to hallway	0.03
8	Floor of doorway heading into Lab 2	0.04
9	Floor of doorway heading into Lab 1	0.03
10	Benchtop where solutions are made	0.03
11	Floor directly in front of bench top where solutions are made	0.04
12	Hood area where solutions are made	0.02
13	Floor directly in front of the hood where solutions are made	0.02
14	Benchtop where solutions are made	0.03
15	Floor directly in front of bench top where solutions are made	0.03
16	Floor of doorway between Lab 1 and 2	0.05
17	Floor in pathway	0.04
18	Floor in pathway	0.00
19	Floor in doorway between Lab 2 and 3	0.04
20	Blank	0.00
21	Blank	0.00
22	Yellow waste storage cabinet shelf	0.02
23	Floor in front of yellow waste storage cabinet	0.04
24	Floor of doorway into waste storage room	0.04
25	Floor in waste sink room	0.02
26	Outside Door of Radioactives Material Storage Cabinet	0.04
27	Used samples-holding drawer	0.04
28	Benchtop to the right of counter	0.04
29	Lab center floor	0.00
30	Lab hood 9-cabinet shelf	0.04
*Background Avg=0.03 mR/hr - 0.05 mR/hr		
**Instrument Information: Wm. B. Johnson & Association Inc. Model GSM-110, Serial No. 8267 Includes pancake wand Model HP-265, Serial No. 6891 Last Calibrated 10/10/05, +-5% accuracy		
100% scan of the survey unit yielded no reading above background.		



**Antkowiak and Mahoney
Enterprises, Inc.**

3 Valley Court
Chester, NY 10918

845 406-1917

Jeanette DeGennaro
Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

The following samples have been analyzed by liquid scintillation counting. Channel 1 is set for optimum tritium efficiency (0-19 KeV). Channel 2 is set for optimum carbon-14 efficiency (19-156 KeV). Analysis has been made to NIST traceable standards.

Results by Liquid Scintillation Counting

Sample ID	Channel 1 dpm/sample	Channel 2 dpm/sample	Channel 3 dpm/sample
1	<MDA	<MDA	<MDA
2	<MDA	<MDA	<MDA
3	<MDA	<MDA	<MDA
4	<MDA	<MDA	<MDA
5	<MDA	<MDA	<MDA
6	<MDA	<MDA	<MDA
7	<MDA	<MDA	<MDA
8	<MDA	<MDA	<MDA
9	<MDA	<MDA	<MDA
10	<MDA	<MDA	<MDA
11	<MDA	<MDA	<MDA
12	<MDA	<MDA	<MDA
13	<MDA	<MDA	<MDA
14	<MDA	<MDA	<MDA
15	<MDA	<MDA	<MDA
16	<MDA	<MDA	<MDA
17	<MDA	<MDA	<MDA
18	<MDA	<MDA	<MDA
19	<MDA	<MDA	<MDA



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Sample ID	Channel 1 dpm/sample	Channel 2 dpm/sample	Channel 3 dpm/sample
20	<MDA	<MDA	<MDA
21	<MDA	<MDA	<MDA
22	<MDA	<MDA	<MDA
23	<MDA	<MDA	<MDA
24	<MDA	<MDA	<MDA
25	<MDA	<MDA	<MDA

Analytical Equipment: Packard Model 1900TR

serial#: 401071

Positive results are reported with the 2 sigma counting error. Minimum Detectable Activity (MDA) is the smallest amount of radioactivity that can be detected at the 95% confidence level. Based on the efficiency, background, and count time, the following MDA's have been calculated for this procedure:

^3H = 102 dpm/sample

^{14}C = 43 dpm/sample

Higher energy emitters = 33 dpm/sample

Joel Antkowiak

Digitally signed by Joel Antkowiak
DN: CN = Joel Antkowiak, C = US,
O = AME Inc.
Date: 2006.02.20 15:19:56 -05'00'

Reviewed and Approved by: _____

Date: _____



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Results by Liquid Scintillation Counting

Sample ID	Channel 1 dpm/sample	Channel 2 dpm/sample	Channel 3 dpm/sample
26	<MDA	<MDA	<MDA
27	<MDA	<MDA	<MDA
28	<MDA	<MDA	<MDA
29	<MDA	<MDA	<MDA
30	<MDA	<MDA	<MDA

Analytical Equipment: Packard Model 1900TR

serial#: 401071

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Joel Antkowiak

Digitally signed by Joel Antkowiak
DN: CN = Joel Antkowiak, C =
US, O = AME Inc.
Date: 2006.06.14 15:23:39 -04'00'

Reviewed and Approved by: _____ Date: _____