

RAD MEASURES, INC

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To: Kevin G. Null, Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
Via Fax: 630-515-1078

Re: License No. 21-32480-01

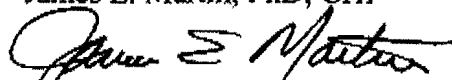
August 4, 2011

Please terminate Radioactive Materials License No. 21-32480-01 which covers licensed activities for Hg-203 (half life=46.6 d) and related products at 3914 Trade Center Dr, Ann Arbor, MI 48108. This location was added by an amendment requested in December 2007 for identical possession and use of the materials as authorized at 331 Metty Dr, Ann Arbor, MI; it became the primary location of licensed activities in 2008. The last shipment from the University of Missouri Research Reactor (MURR) was for 350 millicuries of Hg-203 in November, 2009. This material was promptly processed into spikes and sent to three Chlor-Alkali plants in early December 2009 for determining inventories of mercury used in production of chlorine and sodium hydroxide from brine. Samples returned to my laboratory contained radioactive Hg-203 below exempt quantities and concentrations, and following decay for about 600 days (or about 12.7 half lives) contained negligible radioactivity. This mercury has been transferred to the plants for recycling into their operations which provides further dilution to imperceptible levels.

The facility at 331 Metty Dr was closed out in December 2007 and an exit survey, including several smears of places used in the work, was performed which validated that all radioactive material had been removed and no residual contamination was present. An exit survey was also performed at 3914 Trade Center Dr July 29, 2011 which validated that all radioactive material has been removed and no residual radioactive contamination is present. Records of the exit surveys are enclosed.

If you would like to discuss this request, I can be reached at 734-662-5383. It has been a pleasure working with you and I thank you for your continuing assistance.

James E. Martin, PhD, CHP



President and Radiation
Safety Officer

SURVEY LOG
 RAD MEASURES, INC., 331 METTY DRIVE

After shipped spikes
 Exit Survey

Location	Monthly <input checked="" type="checkbox"/> Special <input checked="" type="checkbox"/>		Monthly <input checked="" type="checkbox"/> Special <input type="checkbox"/>		Monthly <input type="checkbox"/> Special <input checked="" type="checkbox"/>		Monthly <input type="checkbox"/> Special <input type="checkbox"/>	
	Date: 11/30/07	By: JRM	Date: 12/20/07	By: JRM	Date: 12/31/07	By: JRM	Date:	By:
	Smear (cpm/100 cm2) above background	mrem/hr above background	Smear (cpm/100 cm2) above background	mrem/hr above background	Smear (cpm/100 cm2) above background	mrem/hr above background	Smear (cpm/100 cm2) above background	mrem/hr above background
Bkgd	~50	ND	~50	ND	~50	ND		
1	ND	ND	ND	ND	ND	ND		
2	ND	ND	ND	ND	ND	ND		
3	ND	ND	ND	ND	ND	ND		
4	ND	0.2	ND	<0.1	ND	ND		
5	ND	0.2	ND	<0.1	ND	ND		
6	ND	0.2	ND	<0.1	ND	ND		
7	ND	ND	ND	ND	ND	ND		
8	ND	ND	ND	ND	ND	ND		
9	ND	~0.2	ND	<0.2	ND	ND		
10	ND	ND	ND	ND	ND	ND		
11	ND	ND	ND	ND	ND	ND		
12	ND	ND	ND	ND	ND	ND		
13	ND	ND	ND	ND	ND	ND		

- 1. Bench Top
- 2. Bench top + balance
- 3. Floor
- 4. Hood
- 5. Hood
- 6. Hood
- 7. Bench top
- 8. Bench top
- 9. Storage
- 10. Lab sink
- 11. Sinks
- 12. Floor
- 13. Bench top

6 Floor main lab ND ND* Om-end W
 6 Floor work room ND ND* Om-end W

Exit Survey - No
 detectable activity in lab
 JRM 12/31/07

