



STATE OF MICHIGAN

DEPARTMENT OF COMMUNITY HEALTH

LANSING

Bureau of Laboratories
3350 N. Martin Luther King, Jr. Blvd.
P. O. Box 30035
Lansing, MI 48909
(517) 335-8063

JENNIFER M. GRANHOLM
GOVERNOR

JANET OLSZEWSKI
DIRECTOR

August 20, 2007

Mr. Loren Hueter
Nuclear Material Licensing Branch
United States Nuclear Regulatory Commission
Region 111
2443 Warrenville Road
Suite 210
Lisle, Illinois 60532-4352

Dear Mr. Hueter:

The State of Michigan, Department of Community Health, Bureau of Laboratories wishes to terminate the State of Michigan Radioactive Material License No. 21-05199-03, Docket No. 030-04832. In our 2006 renewal the only source requiring a site materials license was Hewlett Packard Model No. 18803-60520. We provided documentation that this source was transferred to Michigan State University and has since been disposed of by that institution

Item 6 of material license upon performing a document review and contact with Michigan State University, it was found that the Hewlett-Packard, Model No.18803-60520 ECD detectors serial numbered C1344 and C1345 as listed were transferred to Michigan State University Scientific Instrument Shop in 1994. See attached memo(attachment 1).

Michigan State University entered these detectors into inventory in 1994 (attachment 2). Michigan State University disposed of the detectors in June 5, 2002 through Zionomics, Inc Manifest # 060502-2 container number 060502-2(Attachment 3).

If additional information is required, please contact Judith Kloss Smith, Acting Safety Officer at 517-335-8859 or e-mail at smithjk@michigan.gov

Sincerely,

Frances Pouch Downes

Frances Downes, Dr.P.H. Laboratory Director
Bureau of Laboratories

RECEIVED AUG 27 2007

ATTACHMENT !

To: Lee Charnella
From: Richard H. Scheel
Date: June 29, 1994
Subject: Electron Capture Detectors

Please be advised that electron capture detectors #'s C-1344 and C-1345 with Ni-63 elements (for Hewlett/Packard gas chromatograph in building 17) have been transferred to the Scientific Instrument Facility Shop, MSU, located in the biochemistry building. MSU will assume full responsibility for these detectors and place them under their NRC license.

Enter/Modify the shipment information for sealed sources here. THIS MENU IS ONLY FOR SEALED SOURCES WITH A LEAK TEST REQUIREMENT.

P.I. #	606	PARMER, JOHN & ERICKSON,
Bldg.#	475	PI Status: RAS
Rm #	1	WASTE STORAGE FACILITIES 1
Nuclide	AmBe241	
Shp. #	SS 0045	
Source Date	2/15/79	
Qty. (mCi)	10.000	Decayed Qty. (mCi) 9.659
Rec. Date	4/23/80	
Req. #		% of Approval
P.O. #		
Supplier	TE	TROXLER ELECTRONICS
Model		
Source Type	SMG	
Serial #	NE2293	
Inv. Date		Inv. Qty. (mCi) <input type="text"/>
Pkg. Mon. Date	2/15/79	Pkg. Leaking? <input checked="" type="checkbox"/> Yes (Check box only if package is leaking!)

<u>Leak Test Date</u>	<u>Leaking?</u>	<u>Status</u>	<u>Next Due Date</u>	<u>Comments</u>
10/6/94	No	Stored	10/5/04	Located at RWB 12/1/00, 1/5/01, 8/3/01.
10/6/94	No	Stored	10/5/04	Transferred from Mokma 4/00; to be disposed. KFE
10/6/94	No	Stored	10/5/04	Inventoried 3/22/94, 11/15/95.

*entered
2/11/02 Rsm*

*P. Reed
2/7/02*

MSU Sealed Source Shipments

[Shipments](#)
[Find](#)
[Print](#)
[SS Leak Tests](#)

G1344 **SS H7833** **PARMER, JOHN AND** **RESEARCH COMPLEX -**
Serial No. **Shipment No.** **PI Name** **Location**
ERICKSON, KRISTIN **ENGINEERING C032B** **NI63** **15**
Isotope **Received Qty**

Leak Tests

Date	Status	Leaking?	Next Due Date	Comments	6/5/2002 Shipped
06/05/2002	Shipped	No		Shipped to Barnwell.	Delete
10/01/2001	Stored	No	10/01/2011	Source discovered in Bch Instrument Shop.	Delete
10/01/2001	Stored	No	10/01/2011	Verified 2/7/02.	Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete

Print

Search

Find All

MSU Sealed Source Shipments

- SS Shipments
- SS Leak Tests
- SS Reports

C1345
Serial No.

SS H7834
Shipment No.

PARMER, JOHN AND
ERICKSON, KRISTIN
PI Name

RESEARCH COMPLEX -
ENGINEERING C032B
Location

NI63
Isotope

15
Received Qty

- Print
- Search
- Find All

Leak Tests

Date	Status	Leaking?	Next Due Date	Comments	
					6/5/2002 Shipped
06/05/2002	Shipped	No		Shipped to Barnwell.	Delete
10/01/2001	Stored	No	10/01/2011	Source found in Bch Instrument Shop, PI	Delete
10/01/2001	Stored	No	10/01/2011	Verified 2/7/02.	Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete
					Delete

ATTACHMENT 3 PAGE 2

Created: 6/29/2004
Pat 'database'

Modified: 8/25/2005
Pat 'database'

*Zionomics,
Inc.*

P.O. Box 817 — Kingston, TN 37763 — (865) 376-0053

July 12, 2002

Dear Customer,

As required by 10 CFR Part 20 (Appendix G), this letter is notification that Duratek has received the shipment recently picked up at your facility. Attached you will find the NRC 540 form for the material previously picked up at your facility. The only change from your original NRC 540 form is in Item No. 9 "*signature*" which identifies that Duratek is acknowledging waste receipt from your facility

Please keep this with your original as well as future disposal certifications.

If you have any questions please feel free to contact me at (865) 376-0053.

Sincerely,



Mia Hammonds
Adm. Assistant

cc: File

ATTACHMENT 3 PAGE 4



P.O. Box 817 — Kingston, TN 37763 — (865) 376-0053

October 14, 2002

Mr. John Stieglitz
 Michigan State University
 Environmental Health & Safety Office
 360 Administrations Bldg
 East Lansing, MI 48824-0360

RE: Manifest #060502-2 Picked-up on 6/5/02

Dear Mr. Stieglitz:

This is to certify that the radioactive material picked up at your facility on June 5, 2002 on manifest number 060502-2 has been disposed of at the Envirocare Waste Management Facility.

Please reference the following table for detailed disposal information.

Manifest Number	Container Number	Disposal Volume (m ³)	Disposal Slip Sheet Number	Disposal Date
* 060502-2	060502-3	.03137	T023418	9/12/02

If you have any questions please feel free to contact me at (865) 376-0053.

Thank you,



Mia Hammonds
 Administrative Assistant

Cc: File

Attachment 3 page 5

Radionuclide	mCi	Date	Comments	ORCBS IDENT. NO.	Disposal Container #
Ni 63	8		SN A790 ECD	1	060502-2
Ni 63	8		SN F473 ECD	2	060502-2
Ni 63	5		SN N029 ECD	3	060502-2
Ni 63	15		SN B719 ECD	4	060502-2
Ni 63	8		SN A2888 ECD	5	060502-2
Ni 63	10		SN 2109 ECD	6	060502-2
Ni 63	15		SN 3698 ECD	7	060502-2
Ni 63	8		SN A1462 ECD	8	060502-2
Ni 63	8		SN A718 ECD	9	060502-2
Ni 63	15		SN 2086 ECD	10	060502-2
Ni 63	8		SN A1574 ECD	11	060502-2
Ni 63	8		SN A1575 ECD	12	060502-2
Ni 63	8		SN A4103 ECD	13	060502-2
Ni 63	14.5		SN 3427 ECD	14	060502-2
Ni 63	15		SN H0880 ECD	15	060502-2
Ni 63	15		SN 3426 ECD	16	060502-2
Ni 63	15		SN 2118 ECD	17	060502-2
Ni 63	15		SN 2914 ECD	18	060502-2
Ni 63	8		SN A1146 ECD	19	060502-2
Ni 63	8		SN A1328 ECD	20	060502-2
Ni 63	8		SN 3182 ECD	21	060502-2
Ni 63	15		SN C1344 ECD	22	060502-2
Ni 63	15		SN C1345 ECD	23	060502-2
Ra 226	0.01		LSC sources in lead	24	060502-2
Ra 226	0.02		LSC sources in lead	25	060502-2
Ra 226	0.01	12/17/1984	LSC sources in lead tag 37821	26	060502-1
Ra 226	0.01	9/9/1983	LSC sources in lead Tag 39804	27	060502-1
Ra 226	0.01	7/1/1981	LSC sources in lead Tag 37856	28	060502-1

MSU Inventory - with disposal container number on
Ziomomics, Inc. - container number



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
2443 WARRENVILLE ROAD STE 210
LISLE, ILLINOIS 60532-4352

OCT 05 2006

Judith Kloss Smith
Radiation Safety Officer
State of Michigan
Department of Community Health
3350 North Martin Luther King, Jr. Blvd.
Building 44, P.O. Box 30035
Lansing, MI 48909

Dear Ms. Smith:

Enclosed is Amendment No. 35 to your NRC Material License No. 21-05199-03, in accordance with your request by letters dated July 10, 2006, September 14, 2006 and October 4, 2006. Please note modifications made to License Condition 16.C. to reflect changes to our standard leak test condition and the addition of License Condition 17, the standard transportation condition, now being added to all licenses. Please note that the changes made to your license are printed in **bold font**.

Please review the enclosed document carefully. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

A handwritten signature in black ink that reads "Loren J. Hueter".

Loren J. Hueter
Materials Licensing Branch

License No. 21-05199-03
Docket No. 030-04832

Enclosure: Amendment No. 35

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. State of Michigan Department of Community Health</p> <p>2. 3350 North Martin Luther King Jr. Blvd. Building 44, P.O. Box 30035 Lansing, MI 48909</p>	<p>In accordance with the letter dated July 10, 2006,</p> <p>3. License number 21-05199-03 is amended in its entirety to read as follows:</p> <p>4. Expiration date February 28, 2011</p> <p>5. Docket No. 030-04832 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Nickel-63</p>	<p>7. Chemical and/or physical form</p> <p>A. Plated sources contained in Hewlett-Packard Model No. 18803-60520 detector assemblies.</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. One cell not to exceed 15 millicuries</p>
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9. Authorized Use:

A. To be used in Hewlett-Packard gas chromatographs for sample analysis.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Department of Community Health, Bureau of Laboratories, 3350 North Martin Luther King Jr. Blvd., Building 44, Lansing, Michigan.
11. A. The Radiation Safety Officer for the activities authorized by this license is **Judith Kloss Smith**.
- B. Licensed material listed in Item 6 above is authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:
- | | |
|----------------------------|------------------|
| Lawrence Warren | Nickel-63 |
| Michael O'Keefe | Nickel-63 |
| Richard Scheel, Ph.D. | Nickel-63 |
| Frances P. Downes, Ph.D. | Nickel-63 |
| Jacqueline S. Scott, Ph.D. | Nickel-63 |

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
21-05199-03

Docket or Reference Number
030-04832

Amendment No. 35

Matthew Geiger, B.S.

Nickel-63

John Riebow, Ph.D.

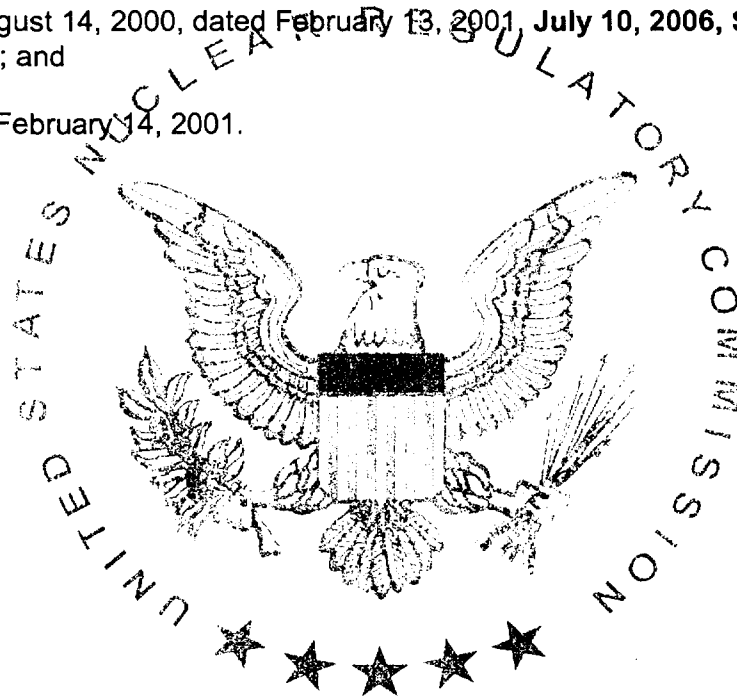
Nickel-63

12. Detector cells containing licensed material shall not be opened or the sources removed from the detector cell by the licensee.
13. Except as otherwise specified in this license, the licensee shall have available and follow the instructions contained in the manufacturer's instruction manual for the chromatography device.
14. The licensee shall conduct a physical inventory every six (6) months to account for all foil sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of foil sources and the date of the inventory.
15. The licensee shall dispose of foil sources by returning to the manufacturer when their use has been discontinued.
16. A. (1) The source specified in Item 7 A shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie (**185 becquerels**) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (**185 becquerels**) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50 (c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
17. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive material."

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
21-05199-03Docket or Reference Number
030-04832

Amendment No. 35

18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated August 14, 2000;
 - B. Letters dated August 14, 2000, dated February 13, 2001, **July 10, 2006, September 14, 2006 and October 4, 2006**; and
 - C. Facsimile dated February 14, 2001.

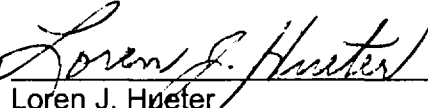


FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

OCT 05 2006

By


Loren J. Hueter
Materials Licensing Branch
Region III

August 16, 2007

Mr. Loren Hueter
Nuclear Material Licensing Branch
United States Nuclear Regulatory Commission
Region 111
2443 Warrenville Road
Suite 210
Lisle, Illinois 60532-4352

Dear Mr. Hueter

The State of Michigan, Department of Community Health, Bureau of Laboratories request to terminate the State of Michigan Radioactive Material License No. 21-05199-03, Docket No. 030-04832, is as follows:

In our 2006 renewal the only source requiring a site materials license was Hewlett-Packard Model No 18803-60520.
~~Item 6 of material license Upon performing a document review and contact with Michigan State University, it was found that the Hewlett-Packard, Model No. 18803-60520 ECD detectors serial numbered C1344 and C1345 as listed were transferred to Michigan State University Scientific Instrument Shop in 1994. See attached memo(attachment 1).~~ *We provide documentation that this source was*

Michigan State University entered these detectors into inventory in 1994 (attachment 2). Michigan State University disposed of the detectors in June 5, 2002 through Zionomics, Inc Manifest # 060502-2 container number 060502-2(Attachment 3) .

~~Item 11(B) The following individual listed on the materials license as authorized for use by, or under supervision of are no longer employed by the Bureau of Laboratories ; Lawrence Warren, Jacqueline S. Scott, Ph.D. and John Riebow, Ph.D..~~

If additional information is required, please contact Judith Kloss Smith, Acting Safety Officer at 517-335-8859 or e-mail at smithjk@michigan.gov

Sincerely,

Frances Downes, Dr.P.H. Laboratory Director
Bureau of Laboratories

*18803-60520.
We provide documentation that this source was no longer transferred to Michigan State Univ. and has since been disposed of by that institution*

MICHIGAN DEPT OF C
BUREAU OF LABORAT
3350 N MARTIN LUTHER KING BLVD
PO BOX 30035
LANSING, MI 48909



MR LOREN HUETER
NUCLEAR MATERIAL LICENSING BRANCH
US NUCLEAR REGULATORY COMM
REGION 111
2443 WARRENVILLE RD
SUITE 210
LISLE, IL 60532-4352