



MBI INTERNATIONAL
3900 Collins Road
Lansing, MI 48910-8396

March 7, 2006

Materials Licensing Section
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Subject: License #21-24836-01

To Whom It May Concern:

Attached please find NRC form 314 and relevant attachments. The Michigan Biotechnology Institute (MBI) wishes at this time to terminate our radioisotope license. MBI's activities have been minimal for the last several years. At this time MBI is in the process of more closely associating itself with Michigan State University. It is our intention that any future radioisotope activities will be covered under MSU's radioisotope program.

If there are any questions or if further information is required please feel free to contact me at 517-336-4671.

Phil Hegge

Director Facilities and Services

Attachments (6)

(6-2004)
10 CFR 30.36(j)(1), 40.42(j)(1),
70.38(j)(1), and 72.54(j)(1)

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

Michigan Biotechnology Institute
P.O. Box 27609
Lansing, MI 48909-0609

LICENSE NUMBER

21-24836-01

DOCKET NUMBER

030-29661

LICENSE EXPIRATION DATE

November 30, 2012

☐

This license has expired.

☒

A. LICENSE STATUS (Check the appropriate box)
This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

☐

1. No radioactive materials have ever been procured or possessed by the licensee under this license.

☒

2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.

☒

a. Transfer of radioactive materials to the licensee listed below:

ECD Detectors returned to Varian, HP,

NRD. See Attachments

☒

b. Disposal of radioactive materials:

☒

1. Directly by the licensee:

2. By licensed disposal site:

☒

3. By waste contractor:

Bionomics
P.O. Box 817
Kingston, TN 37763

☒

c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

☒

1. A radiation survey was conducted by the licensee. The survey confirms:

☒

a. the absence of licensed radioactive materials

☐

b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.

☒

2. A copy of the radiation survey results:

☒

a. is attached; or

☐

b. is not attached (Provide explanation); or

☐

c. was forwarded to NRC on:

Date

☐

3. A radiation survey is not required as only sealed sources were ever possessed under this license, and

☐

a. The results of the latest leak test are attached; and/or

☐

b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME

Phil Hegge

TITLE

Director Facilities

TELEPHONE (include Area Code)

517-336-4671

E-MAIL ADDRESS

hegge@mbi.org

Mail all future correspondence regarding this license to:

MBI, 3900 Collins Road, Lansing, MI 48910-8596

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Mark Stowers, President

SIGNATURE

Mark D. Stowers

DATE

3/3/06

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

ORCBS RADIOISOTOPE LABORATORY SURVEY

Location B106 mBI Isotopes Used _____ Date 10/11/05
 Project Leader _____ Contact Person Phil Hesse

CHECKLIST: (Items marked "No" require corrective action).

- | Yes | No | NA | |
|---|--------------------------|-------------------------------------|---|
| 1. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRC "Notice To Employees" and "Licensing and Regulation Information" are posted. |
| 2. <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Radioactive materials are under constant surveillance and immediate control of licensee, or otherwise secured to prevent tampering or unauthorized removal. |
| 3. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radiation users are adequately trained for functions performed. |
| 4. <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Surveyed areas are free of radioactive contamination. |
| 5. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Laboratory radiation survey equipment is functional and used correctly. |
| 6. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Laboratory radiation surveys are accurate and frequency is appropriate. |
| 7. <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Food and other consumables are not present in radioisotope and chemical use/storage areas. |
| 8. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope work areas, storage areas and equipment are labeled adequately. |
| 9. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope sources/stock solutions are labeled adequately. |
| 10. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope waste is manifested on both sides of the tag, 2" containment for liquids. |
| 11. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope shielding is adequate (material, thickness, positioning). |
| 12. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Dosimeters, if assigned, and protective equipment are used during radioisotope handling. |
| 13. <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Fume hoods are used properly (sash setting, uncluttered, rated for radioisotope use). |

#: Not observed; no radioactive work at time of survey or no radiation workers present in laboratory.

Comments:

Close out survey

- ° 7 ECDs remain in room
- ° 3 meters with check sources attached remain
- ° Samples for disposal remain pending analysis.

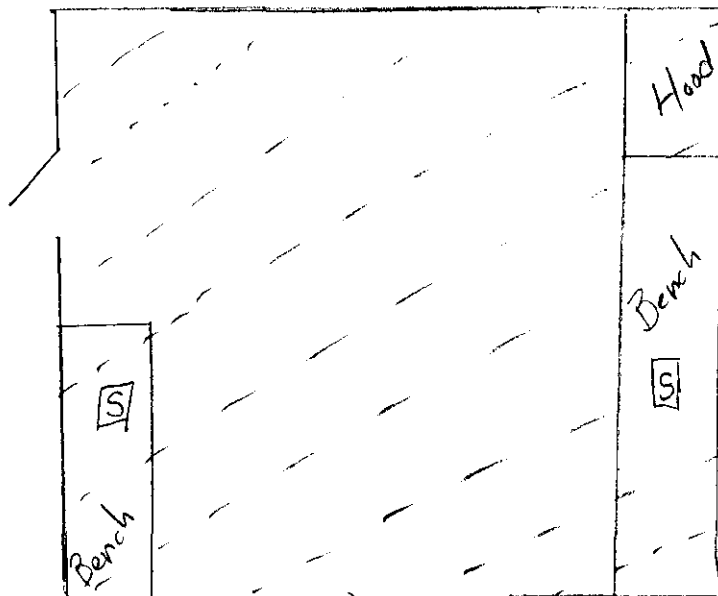
SURVEYED BY:

R DeZess J Chisnell

JA

(ORCBS Representative)

B106 mBI



KEY: (B) = Bench, (H) = Hood, (S) = Sink, (R) = Refrigeration Unit, (WA) = Waste Container, () = Wipe Sample Area, (-----) = Meter Survey Area, (X) = Contaminated Area ($\leq 100 \text{ cm}^2$ unless stated otherwise).

Survey Instrument Information

Make: Ludlum Model: 3 Serial No.: 116872 (Ratemeter)
 Make: Packard Model: 2900 TR Serial No.: 426 326 (L.S.C.)

Detection Sensitivity

Notes:

Nuclide	B.G. (CPM)	Eff. (%)
<u>^{14}C</u>	<u>20-40</u>	<u>5</u>
<u>B</u>	<u>17-20-40</u>	<u>50</u>

Survey Results

I.D.	Area Description	Nuc.	CPM	DPM	μCi	Corrective Action

Date of Survey: 10/11/05

Signature: [Signature]

Note: All areas surveyed are less than twice background levels above unless stated otherwise. The efficiencies are obtained from the calibrations performed by ORCBS. Revised September 2001

ORCBS RADIOISOTOPE LABORATORY SURVEY

Location B109 mBI Isotopes Used ^{14}C ^3H Date 10/11/05
 Project Leader _____ Contact Person Phil Hegge

CHECKLIST: (Items marked "No" require corrective action).

- | | Yes | No | NA | |
|-----|-------------------------------------|--------------------------|-------------------------------------|---|
| 1. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRC "Notice To Employees" and "Licensing and Regulation Information" are posted. |
| 2. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Radioactive materials are under constant surveillance and immediate control of licensee, or otherwise secured to prevent tampering or unauthorized removal. |
| 3. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radiation users are adequately trained for functions performed. |
| 4. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Surveyed areas are free of radioactive contamination. |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Laboratory radiation survey equipment is functional and used correctly. |
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Laboratory radiation surveys are accurate and frequency is appropriate. |
| 7. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Food and other consumables are not present in radioisotope and chemical use/storage areas. |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope work areas, storage areas and equipment are labeled adequately. |
| 9. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope sources/stock solutions are labeled adequately. |
| 10. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope waste is manifested on both sides of the tag, 2" containment for liquids. |
| 11. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope shielding is adequate (material, thickness, positioning). |
| 12. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Dosimeters, if assigned, and protective equipment are used during radioisotope handling. |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Fume hoods are used properly (sash setting, uncluttered, rated for radioisotope use). |

#: Not observed; no radioactive work at time of survey or no radiation workers present in laboratory.

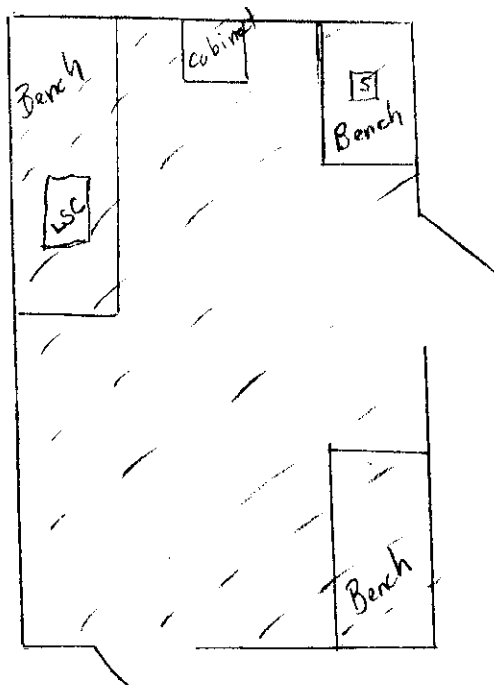
Comments:

Close out survey

Liquid scintillation counter and standards remain in room

SURVEYED BY: R. DeZoss J. Chisnell JAC
 (ORCBS Representative)

B109 MBI



KEY: (B) = Bench, (H) = Hood, (S) = Sink, (R) = Refrigeration Unit, (WA) = Waste Container, () = Wipe Sample Area, (-----) = Meter Survey Area, (X) = Contaminated Area ($\leq 100 \text{ cm}^2$ unless stated otherwise).

Survey Instrument Information

Make: Cudluns Model: 3 Serial No.: 116872 (Ratemeter)
 Make: Packard Model: 2900 TR Serial No.: 426326 (L.S.C.)

Detection Sensitivity

Notes:

Nuclide	B.G. (CPM)	Eff. (%)
<u>^{14}C</u>	<u>20-40</u>	<u>5</u>
<u>β</u>	<u>17</u>	<u>50</u>

Survey Results

I.D.	Area Description	Nuc.	CPM	DPM	μCi	Corrective Action

Date of Survey: 10/1/05

Signature: [Signature]

Note: All areas surveyed are less than twice background levels above unless stated otherwise. The efficiencies are obtained from the calibrations performed by ORCBS.

Revised September 2001

ORCBS RADIOISOTOPE LABORATORY SURVEY

Location B139 MBT Isotopes Used ¹⁴C Date 10/11/05
 Project Leader _____ Contact Person Phil Huggins

CHECKLIST: (Items marked "No" require corrective action).

- | Yes | No | NA | |
|--|--------------------------|-------------------------------------|---|
| 1. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRC "Notice To Employees" and "Licensing and Regulation Information" are posted. |
| 2. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioactive materials are under constant surveillance and immediate control of licensee, or otherwise secured to prevent tampering or unauthorized removal. |
| 3. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radiation users are adequately trained for functions performed. |
| 4. <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Surveyed areas are free of radioactive contamination. |
| 5. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Laboratory radiation survey equipment is functional and used correctly. |
| 6. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Laboratory radiation surveys are accurate and frequency is appropriate. |
| 7. <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Food and other consumables are not present in radioisotope and chemical use/storage areas. |
| 8. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope work areas, storage areas and equipment are labeled adequately. |
| 9. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope sources/stock solutions are labeled adequately. |
| 10. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope waste is manifested on both sides of the tag, 2" containment for liquids. |
| 11. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radioisotope shielding is adequate (material, thickness, positioning). |
| 12. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Dosimeters, if assigned, and protective equipment are used during radioisotope handling. |
| 13. <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Fume hoods are used properly (sash setting, uncluttered, rated for radioisotope use). |

#: Not observed; no radioactive work at time of survey or no radiation workers present in laboratory.

Comments:

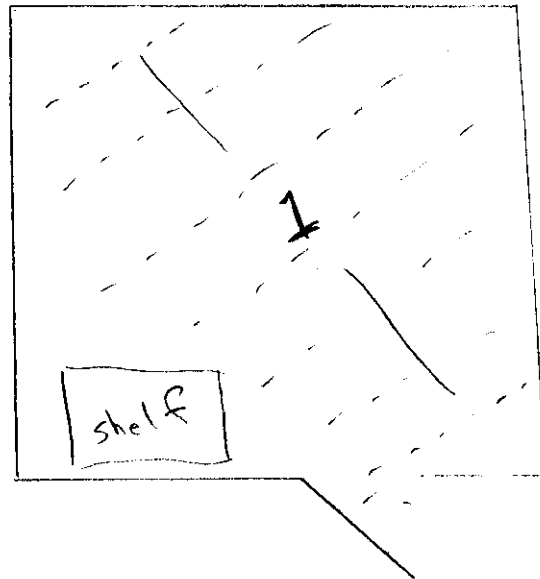
Close out survey of waste storage area.
No radioactive contamination detected.

SURVEYED BY:

R. DeBess J. Chisnell

JTC
 (ORCBS Representative)

B139 mBI



KEY: (B) = Bench, (H) = Hood, (S) = Sink, (R) = Refrigeration Unit, (WA) = Waste Container, () = Wipe Sample Area, (-----) = Meter Survey Area, (X) = Contaminated Area ($\leq 100 \text{ cm}^2$ unless stated otherwise).

Survey Instrument Information

Make: Cudlum Model: 3 Serial No.: 116872 (Ratemeter)
 Make: Packard Model: 2900 TR Serial No.: 426320 (L.S.C.)

Detection Sensitivity

Notes:

Nuclide	B.G. (CPM)	Eff. (%)
<u>^{14}C</u>	<u>20-40</u>	<u>5</u>

Survey Results

I.D.	Area Description	Nuc.	CPM	DPM	μCi	Corrective Action

Date of Survey: 10/1/05

Signature: [Signature]

Note: All areas surveyed are less than twice background levels above unless stated otherwise. The efficiencies are obtained from the calibrations performed by ORCBS.

Revised September 2001



2850 Centerville Road
Wilmington, DE 19808

Michigan Biotechnology Ins.
Attn: Phil Hegge
3900 Collins Road
Lansing MI 48910

2/22/06

Deleted: 11
Date: 11

Reference: **Receipt of Radioactive Devices**

To Whom It May Concern:

This letter is to notify you that the Electron Capture Detectors listed below have been returned to, and are in possession of, Agilent Technologies Inc., 2850 Centerville Road, Wilmington, DE 19808, USA for further disposition.

Serial Number	Model Number	Date Received	Local Visa Number
K3015	19233-69576	2/16/06	N/A

Please understand that this letter does not relieve you of your responsibility to notify either your state nuclear regulatory agency (if you reside in an Agreement State) or the Nuclear Regulatory Commission (if you do not) of the transfer in accordance with 10 CFR 31.5 (c) (8) (i) and (ii). If you are notifying the NRC of the transfer of the device, please note the following complete mailing address:

Director of Nuclear Material Safety and Safeguards
ATTN: GLTS
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Please contact your local Agilent Technologies, Inc. service representative if you have any questions.

Regards,

David S. Bennett
Radiation Safety Office, U.S. Operations

Document Owner: David S. Bennett
Revision Date: 12/28/05



NRD, LLC 800-525-8076
2937 ALT BOULEVARD 716-773-7634
PO BOX 310 716-773-7744 FAX
GRAND ISLAND, NY www.nrdinc.com
14072-0310 sales@nrdinc.com

To Whom It May Concern:

Date: 02/23/06

We are in receipt of:

Device & Model: Perkin Elmer Electron Capture Cell

Serial Number: 362

Isotope: Nickel-63

Content: 15mCi

Date of Manufacture: Unknown

Returned to NRD for:

Special Modification:

Wipe Test:

Repair, Renovation and Return:

Waste Disposal: X

(Service performed under NYS License 1391-1811)

Returned by:

Firm Name: MBI INTERNATIONAL

Address: 3900 COLLINS RD

LANSING, MI 48910

Condition of Material Received:

Good: X

Other:

Complete: X

Incomplete:

Very truly yours,

Douglas M. Davis

Radiation Safety Officer

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: SEND THE COMPLETED CERTIFICATE TO THE
NRC OFFICE SPECIFIED ON THE REVERSE.

(All items MUST be completed—
print or type)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH
THIS INFORMATION COLLECTION REQUEST: 5 HRS.
FORWARD COMMENTS REGARDING BURDEN ESTIMATE
TO THE RECORDS AND REPORTS MANAGEMENT
BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION,
WASHINGTON, DC 20555, AND TO THE PAPERWORK
REDUCTION PROJECT (3150-0028), OFFICE OF MANAGEMENT
AND BUDGET, WASHINGTON, DC 20503.

LICENSEE NAME AND ADDRESS

**MBI INTERNATIONAL
3900 COLLINS ROAD
LANSING, MI 48910**

LICENSE NUMBER

LICENSE EXPIRATION DATE

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:
(Check and/or complete the appropriate item(s) below.)

PHIL HEGGE (517) 336-4690

A. MATERIALS DATA (Check one and complete as necessary)

- ☐ 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- ☒ 2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF
IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions, including the
disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

**GAS CHROMATOGRAPH, ELECTRON CAPTURE DETECTOR P/N 02-001972-00 A3186
RADIOISOTOPE: NICKEL 63 AMOUNT: 15mCi**

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and
license number.

DATE: 02/24/06

VARIAN LICENSE # 0256-07 (CALIFORNIA)

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the
specific disposal procedures (e.g., decay in storage).

**STORED AT: VARIAN CHROMATOGRAPHY SYSTEMS, 2700 MITCHELL DR., WALNUT CREEK, CA 94598
PH# (925) 939-2400**

B. OTHER DATA

- ☐ 1. OUR LICENSE HAS NOT YET EXPIRED. PLEASE TERMINATE IT.
- ☐ 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER
ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)

☐ NO (Attach explanation)

☒ YES, THE RESULTS (Check one)

☒ ARE ATTACHED, or

☐ WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME

Larry Steinwandt, Radiation Safety Officer

TELEPHONE NUMBER

(925) 945-2136

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

SIGNATURE

Larry Steinwandt

DATE

2-24-06

PRINTED NAME AND TITLE

Larry Steinwandt, Radiation Safety Officer for Varian, Inc.

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC
REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS.
18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION
TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

IMPORTANT DOCUMENT

Keep this certificate and future leak test records for display on request by an inspecting radiation official. Failure to supply records may result in a citation, suspension of your license, and/or a fine.

CERTIFICATE OF LEAK TEST

The Electron Capture Detector (ECD) indicated below has been surveyed for external radioactive contamination as indicated in the Ni⁶³ Radiation Safety Manual, Publication 03-913999-00, paragraph 3.

Isotope: Ni⁶³

ISO 2919 Classification C42211

Activity: 555 MBq Maximum (15mCi)

Date: 2-24-06 ECD Serial No: A3186

Model No.: 02-001912-00 Source Serial No:

The removable radioactivity from the surface of this ECD cell was measured to be:

.00001 microcuries

Note: Varian Chromatography Systems is required by the U.S. NRC and the California Department of Health to inform you that the Ni⁶³ ECD must be leak tested every 36 months.

The California Department of Health - Radiation Authority has granted an extension of the time required between leak tests (for Varian ECDs) from the standard 6 month interval, to a 36 month interval per "Registry of Radioactive Sealed Sources and Devices, Safety Evaluation of Devices," Number CA662D101B, which is on file with all radiation authorities.

Larry Steinwandt
Radiation Safety Officer
Varian Chromatography Systems
2700 Mitchell Drive
Walnut Creek, CA 94598

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: SEND THE COMPLETED CERTIFICATE TO THE
NRC OFFICE SPECIFIED ON THE REVERSE.

(All items MUST be completed—
print or type)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH
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FORWARD COMMENTS REGARDING BURDEN ESTIMATE
TO THE RECORDS AND REPORTS MANAGEMENT
BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION,
WASHINGTON, DC 20555, AND TO THE PAPERWORK
REDUCTION PROJECT (D150-0028), OFFICE OF MANAGEMENT
AND BUDGET, WASHINGTON, DC 20503.

LICENSEE NAME AND ADDRESS

**MBI INTERNATIONAL
3900 COLLINS ROAD
LANSING, MI 48910**

LICENSE NUMBER

LICENSE EXPIRATION DATE

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:

(Check one and/or complete the appropriate item(s) below.)

PHIL HEGGE (517) 336-4690

A. MATERIALS DATA (Check one and complete as necessary)

- ☐ 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- ☒ 2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions, including the disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

**GAS CHROMATOGRAPH, ELECTRON CAPTURE DETECTOR 03-917440-00 S/N B742
RADIOISOTOPE: NICKEL 63 AMOUNT: 15mCi**

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and license number.

DATE: 02/24/06 VARIAN LICENSE # 0256-07 (CALIFORNIA)

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the specific disposal procedures (e.g., decay in storage).

**STORED AT: VARIAN CHROMATOGRAPHY SYSTEMS, 2700 MITCHELL DR., WALNUT CREEK, CA 94598
PH# (925) 939-2400**

B. OTHER DATA

- ☐ 1. OUR LICENSE HAS NOT YET EXPIRED. PLEASE TERMINATE IT.
- ☐ 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)

☐ NO (Attach explanation)

☒ YES. THE RESULTS (Check one)

☒ ARE ATTACHED, OR

☐ WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME

Larry Steinwandt, Radiation Safety Officer

TELEPHONE NUMBER

(925) 945-2136

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

SIGNATURE

Larry Steinwandt

DATE

2-24-06

PRINTED NAME AND TITLE

Larry Steinwandt, Radiation Safety Officer for Varian, Inc.

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CERTIFICATE OF LEAK TEST

The Electron Capture Detector (ECD) indicated below has been surveyed for external radioactive contamination as indicated in the Ni⁶³ Radiation Safety Manual, Publication 03-913999-00, paragraph 3.

Isotope: Ni⁶³

ISO 2919 Classification C42211

Activity: 555 MBq Maximum (15mCi)

Date: 2/24/06

ECD Serial No: B742

Model No.: 03-917440-00

Source Serial No: —

The removable radioactivity from the surface of this ECD cell was measured to be:

.00002 microcuries

Note: Varian Chromatography Systems is required by the U.S. NRC and the California Department of Health to inform you that the Ni⁶³ ECD must be leak tested every 36 months.

The California Department of Health - Radiation Authority has granted an extension of the time required between leak tests (for Varian ECDs) from the standard 6 month interval, to a 36 month interval per "Registry of Radioactive Sealed Sources and Devices, Safety Evaluation of Devices," Number CA662D101B, which is on file with all radiation authorities.

Larry Steinwandt
Radiation Safety Officer
Varian Chromatography Systems
2700 Mitchell Drive
Walnut Creek, CA 94598

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: SEND THE COMPLETED CERTIFICATE TO THE
NRC OFFICE SPECIFIED ON THE REVERSE.

(All items MUST be completed -
print or type)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH
THIS INFORMATION COLLECTION REQUEST: 5 HRS.
FORWARD COMMENTS REGARDING BURDEN ESTIMATE
TO THE RECORDS AND REPORTS MANAGEMENT
BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION,
WASHINGTON, DC 20555, AND TO THE PAPERWORK
REDUCTION PROJECT (3150-0028), OFFICE OF MANAGEMENT
AND BUDGET, WASHINGTON, DC 20503.

LICENSEE NAME AND ADDRESS

**MBI INTERNATIONAL
3900 COLLINS ROAD
LANSING, MI 48910**

LICENSE NUMBER

LICENSE EXPIRATION DATE

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:
(Check and/or complete the appropriate item(s) below.) **PHIL HEGGE (517) 336-4690**

A. MATERIALS DATA (Check one and complete as necessary)

- ☐ 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- ☒ 2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF
IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions, including the
disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

**GAS CHROMATOGRAPH, ELECTRON CAPTURE DETECTOR P/N 02-001972-00 S/N A8577
RADIOISOTOPE: NICKEL 63 AMOUNT: 8mCi**

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and
license number.

DATE: 02/24/06

VARIAN LICENSE # 0256-07 (CALIFORNIA)

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the
specific disposal procedures (e.g., decay in storage).

**STORED AT: VARIAN CHROMATOGRAPHY SYSTEMS, 2700 MITCHELL DR., WALNUT CREEK, CA 94598
PH# (925) 939-2400**

B. OTHER DATA

- ☐ 1. OUR LICENSE HAS NOT YET EXPIRED. PLEASE TERMINATE IT.
- ☐ 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER
ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)

☐ NO (Attach explanation)

☒ YES, THE RESULTS (Check one)

☒ ARE ATTACHED, or

☐ WERE FORWARDED TO NRC ON (Date)

- ☐ 3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME

Larry Steinwandt, Radiation Safety Officer

TELEPHONE NUMBER

(925) 945-2136

- ☐ 4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

SIGNATURE

Larry Steinwandt

DATE

2-24-06

PRINTED NAME AND TITLE

Larry Steinwandt, Radiation Safety Officer for Varian, Inc.

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC
REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS.
18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION
TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

IMPORTANT DOCUMENT

Keep this certificate and future leak test records for display on request by an inspecting radiation official. Failure to supply records may result in a citation, suspension of your license, and/or a fine.

CERTIFICATE OF LEAK TEST

The Electron Capture Detector (ECD) indicated below has been surveyed for external radioactive contamination as indicated in the Ni⁶³ Radiation Safety Manual, Publication 03-913999-00, paragraph 3.

Isotope: Ni⁶³

ISO 2919 Classification C42211

Activity: 555 MBq Maximum (15mCi)

Date: 2/24/06

ECD Serial No: A8577

Model No.: 02-001972-00

Source Serial No:

The removable radioactivity from the surface of this ECD cell was measured to be:

.00001 microcuries

Note: Varian Chromatography Systems is required by the U.S. NRC and the California Department of Health to inform you that the Ni⁶³ ECD must be leak tested every 36 months.

The California Department of Health - Radiation Authority has granted an extension of the time required between leak tests (for Varian ECDs) from the standard 6 month interval, to a 36 month interval per "Registry of Radioactive Sealed Sources and Devices, Safety Evaluation of Devices," Number CA662D101B, which is on file with all radiation authorities.

Larry Steinwandt
Radiation Safety Officer
Varian Chromatography Systems
2700 Mitchell Drive
Walnut Creek, CA 94598

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: SEND THE COMPLETED CERTIFICATE TO THE
NRC OFFICE SPECIFIED ON THE REVERSE.

(All items MUST be completed—
print or type)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH
THIS INFORMATION COLLECTION REQUEST: 5 HRS.
FORWARD COMMENTS REGARDING BURDEN ESTIMATE
TO THE RECORDS AND REPORTS MANAGEMENT
BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION,
WASHINGTON, DC 20555, AND TO THE PAPERWORK
REDUCTION PROJECT (3150-0028), OFFICE OF MANAGEMENT
AND BUDGET, WASHINGTON, DC 20503.

LICENSEE NAME AND ADDRESS

**MBI INTERNATIONAL
3900 COLLINS ROAD
LANSING, MI 48910**

LICENSE NUMBER

LICENSE EXPIRATION DATE

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(Check and/or complete the appropriate item(s) below.) **PHIL HEGGE (517) 336-4690**

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IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions, including the
disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

**GAS CHROMATOGRAPH, ELECTRON CAPTURE DETECTOR P/N 02-001972-00 S/N A8670
RADIOISOTOPE: NICKEL 63 AMOUNT: 8mCi**

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and
license number.

DATE: 02/24/06

VARIAN LICENSE # 0256-07 (CALIFORNIA)

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the
specific disposal procedures (e.g., decay in storage).

**STORED AT: VARIAN CHROMATOGRAPHY SYSTEMS, 2700 MITCHELL DR., WALNUT CREEK, CA 94598
PH# (925) 939-2400**

B. OTHER DATA

- ☐ 1. OUR LICENSE HAS NOT YET EXPIRED, PLEASE TERMINATE IT.
- ☐ 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER
ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)

☐ NO (Attach explanation)

☒ YES, THE RESULTS (Check one)

☒ ARE ATTACHED, or

☐ WERE FORWARDED TO NRC ON (Date)

- ☐ 3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME

Larry Steinwandt, Radiation Safety Officer

TELEPHONE NUMBER

(925) 945-2136

- ☐ 4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

SIGNATURE

Larry Steinwandt

DATE

2-24-06

PRINTED NAME AND TITLE

Larry Steinwandt, Radiation Safety Officer for Varian, Inc.

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC
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IMPORTANT DOCUMENT

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CERTIFICATE OF LEAK TEST

The Electron Capture Detector (ECD) indicated below has been surveyed for external radioactive contamination as indicated in the Ni⁶³ Radiation Safety Manual, Publication 03-913999-00, paragraph 3.

Isotope: Ni⁶³

ISO 2919 Classification C42211

Activity: 555 MBq Maximum (15mCi)

Date: 2/24/06

ECD Serial No: A8670

Model No.: 02-001912-00

Source Serial No: —

The removable radioactivity from the surface of this ECD cell was measured to be:

.00001 microcuries

Note: Varian Chromatography Systems is required by the U.S. NRC and the California Department of Health to inform you that the Ni⁶³ ECD must be leak tested every 36 months.

The California Department of Health - Radiation Authority has granted an extension of the time required between leak tests (for Varian ECDs) from the standard 6 month interval, to a 36 month interval per "Registry of Radioactive Sealed Sources and Devices, Safety Evaluation of Devices," Number CA662D101B, which is on file with all radiation authorities.

Larry Steinwandt
Radiation Safety Officer
Varian Chromatography Systems
2700 Mitchell Drive
Walnut Creek, CA 94598

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: SEND THE COMPLETED CERTIFICATE TO THE
NRC OFFICE SPECIFIED ON THE REVERSE.

(All items MUST be completed -
print or type)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH
THIS INFORMATION COLLECTION REQUEST: .5 HRS.
FORWARD COMMENTS REGARDING BURDEN ESTIMATE
TO THE RECORDS AND REPORTS MANAGEMENT
BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION,
WASHINGTON, DC 20555, AND TO THE PAPERWORK
REDUCTION PROJECT (3150-0028), OFFICE OF MANAGEMENT
AND BUDGET, WASHINGTON, DC 20503.

LICENSEE NAME AND ADDRESS

**MBI INTERNATIONAL
3900 COLLINS ROAD
LANSING, MI 48910**

LICENSE NUMBER

LICENSE EXPIRATION DATE

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(Check and/or complete the appropriate item(s) below.)

PHIL HEGGE (517) 336-4690

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THE DESCRIBED

GENERAL LICENSEE

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions, including the
disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

**GAS CHROMATOGRAPH, ELECTRON CAPTURE DETECTOR P/N 02-001972-00 S/N A8669
RADIOISOTOPE: NICKEL 63 AMOUNT: 8mCi**

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and
license number.

DATE: 02/24/06

VARIAN LICENSE # 0256-07 (CALIFORNIA)

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the
specific disposal procedures (e.g., decay in storage).

**STORED AT: VARIAN CHROMATOGRAPHY SYSTEMS, 2700 MITCHELL DR., WALNUT CREEK, CA 94598
PH# (925) 939-2400**

B. OTHER DATA

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☒ YES, THE RESULTS (Check one)

☒ ARE ATTACHED, or

☐ WERE FORWARDED TO NRC ON (Date)

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NAME

Larry Steinwandt, Radiation Safety Officer

TELEPHONE NUMBER

(925) 945-2136

- ☐ 4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

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I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

SIGNATURE

Larry Steinwandt

DATE

2-24-06

PRINTED NAME AND TITLE

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CERTIFICATE OF LEAK TEST

The Electron Capture Detector (ECD) indicated below has been surveyed for external radioactive contamination as indicated in the Ni⁶³ Radiation Safety Manual, Publication 03-913999-00, paragraph 3.

Isotope: Ni⁶³

ISO 2919 Classification C42211

Activity: 555 MBq Maximum (15mCi)

Date: 2-24-06

ECD Serial No: A8669

Model No.: 02-001972-00

Source Serial No:

The removable radioactivity from the surface of this ECD cell was measured to be:

0000 microcuries

Note: Varian Chromatography Systems is required by the U.S. NRC and the California Department of Health to inform you that the Ni⁶³ ECD must be leak tested every 36 months.

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Larry Steinwandt
Radiation Safety Officer
Varian Chromatography Systems
2700 Mitchell Drive
Walnut Creek, CA 94598

MBI INTERNATIONAL

3900 Collins Road

P.O. Box 27609

Lansing, MI 48909

TO:

Materials Licensing Section

U.S. Nuclear Regulatory Commission

Region III

2443 Warrenville Road, Suite 210

Lisle, IL 60532-4352