



DREXEL UNIVERSITY
Office of
Research

Aleister Saunders, Ph.D.
Senior Vice Provost for Research

December 21, 2016

U.S. Nuclear Regulatory Commission
Region 1
2100 Renaissance Blvd.
King of Prussia, PA 19406-2713

Br. 2

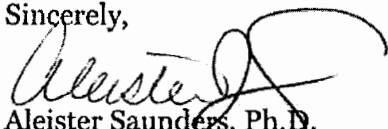
re: License # 37-04594-11
Docket # 030-15139

Dear Sir or Madam:

Please terminate the above referenced license. All activities authorized by this license have ceased and all radioactive materials have been disposed. Attached are receipts showing the disposition of material. The electron capture devices containing the nickel-63 foils were disassembled, cleaned and tested for contamination before being returned to Drexel University.

If you have any questions or need any additional information, please contact our radiation safety officer, Kent Lambert, 215-762-2908, kent.lambert@drexel.edu. If I can be of assistance, please do not hesitate to contact me.

Sincerely,


Aleister Saunders, Ph.D.
Sr. Vice Provost for Research

cc: Kent Lambert, CHP

enc. (4)

REC'D IN LAT 01/06/2017

592741
NRC/IRRI MATERIALS-002



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: 3/11/2014

We are in receipt of:

Device & Model: ELECTRON CAPTURE DEVICE

Serial Number: 7290BZ

Isotope: Nickel-63

Content: 10 mCi

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: DREXEL UNIVERSITY

Address: ATTN: STEPHEN LUDOVICO

3141 CHESTNUT ST

PHILADELPHIA PA 19104

Condition of Material Received:

Good: X

Other: _____

Complete: X

Incomplete: _____

Very truly yours,

Douglas M. Davis
Radiation Safety Officer



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GRAND ISLAND, NY www.nrdinc.com
14072-0310 sales@nrdinc.com

To Whom It May Concern:

Date: 3/11/2014

We are in receipt of:

Device & Model: ELECTRON CAPTURE DEVICE
Serial Number: 4449BZ
Isotope: Nickel-63
Content: 15 mCi
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: DREXEL UNIVERSITY
Address: ATTN: STEPHEN LUDOVICO
3141 CHESTNUT ST
PHILADELPHIA PA 19104

Condition of Material Received:

Good: X Other:
Complete: X Incomplete:

Very truly yours,

Douglas M. Davis
Radiation Safety Officer



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GRAND ISLAND, NY e-mail: sales@nrdinc.com
14072-0310 website: www.nrdinc.com

October 4, 2012

Chris Alston
Technician, Radiation Safety
Drexel University
Philadelphia, Pennsylvania 19104

Sir:

This letter is in response to your request of October 3, 2012, concerning the following:

NRD Sales Order 052761

Received: September 13, 2012

Shipped: September 20, 2012

The following operations were performed on device # 9339 BZ, as per our Return Authorization form # 2374:

1. The device was disassembled in our Ni63 laboratory;
2. the source foil was removed and disposed, as per our procedures;
3. component parts of the device were thoroughly cleaned, using various cleaning agents;
4. wipe tests of each component part were performed prior to re-assembly;
5. test results for all exterior parts showed no discernable removable contamination;
6. test results for the interior (foil chamber), after multiple cleanings, were less than 0.0005 uCi;
7. this result was communicated to Wolfgang Nadler, who indicated that this was acceptable;
8. the device was re-assembled, and a second, final wipe was performed on the assembled device;
9. this result mirrored the individual wipe results, with no discernable removable contamination;
10. the device was packaged as per our normal procedure, and shipped to Drexel University, c/o Wolfgang Nadler, on September 20, 2012.

I hope that this document meets your needs. Please contact our RSO, Doug Davis, if there are any further questions.

Sincerely,

A handwritten signature in black ink, appearing to read "James P. Juraska", is written over a horizontal line.

James P. Juraska
Sr. Lab Technician - Ni63 Operations - NRD LLC

cc : Doug Davis, Director of Engineering and Quality; RSO
Steve Olsson, Director of Operations



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PO BOX 310 | 716-773-7744 FAX
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14072-0310 | website: www.nrdinc.com

November 12, 2013

Chris Alston
Technician, Radiation Safety
Drexel University
Philadelphia, Pennsylvania 19104

Re : NRD Sales Order 055640
Received: October 15, 2013
Shipped: November 12, 2013

The following operations were performed on device # 965, as per our Return Authorization form #2566:

1. The device was disassembled in our Ni63 laboratory;
2. the source foil was removed and disposed, as per our procedures;
3. component parts of the device were thoroughly cleaned, using various cleaning agents;
4. wipe tests of each component part were performed prior to re-assembly;
5. test results for all exterior parts showed no discernable removable contamination;
6. test results for the interior (foil chamber), after multiple cleanings, were less than 0.0001 uCi;
7. the device was re-assembled, and a second, final wipe was performed on the assembled device;
8. this result mirrored the individual wipe results, with no discernable removable contamination;
9. the device was packaged as per our normal procedure, and shipped to Drexel University, attn. Kent Lambert, on November 12, 2013.

I hope that this document meets your needs. Please contact our RSO, Doug Davis, if there are any further questions.

Sincerely,

A handwritten signature in black ink, appearing to read "James P. Juraska". The signature is written in a cursive, flowing style.

James P. Juraska
Sr. Lab Technician – Ni63 Operations

cc : Doug Davis, Director of Engineering and Quality; RSO
Steve Olsson, Director of Operations



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee

Drexel University
ATTN: Sreekant Murthy, Ph.D.
Office of Research
The Left Bank, 3180 Chestnut Street
Suite 104
Philadelphia, PA 19104

Date

January 11, 2017

License Number(s)

37-04594-11

Mail Control Number(s)

592741

Licensing and/or Technical Reviewer or Branch

Commercial, Industrial, R&D, & Academic Branch
(Branch 2)

This is to acknowledge receipt of your: ☒ Letter and/or ☐ Application Dated: 12/21/2016

The initial processing, which included an administrative review, has been performed.

☐ Amendment ☒ Termination ☐ New License ☐ Renewal

☒ There were no administrative omissions identified during our initial review.

☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

☐ Your application for a new NRC license did not include your taxpayer identification number. Please complete and submit NRC Form 531, Request for Taxpayer Identification Number, located at the following link: <http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>
Follow the instructions on the form for submission.

☐ The following administrative omissions have been identified:

Your application has been assigned the above listed MAIL CONTROL NUMBER. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region I
U. S. Nuclear Regulatory Commission
Division of Nuclear Materials Safety
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713
(610) 337-5260, (610) 337-5313,
(610) 337-5398, or (610) 337-5239