

Northern
Michigan
University

Department of Biology
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May 7, 2015

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

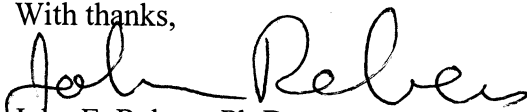
Re: NRC license No. 21-09119-02

Dear Sir/Ms:

We wish to terminate NRC license No. 21-09119-02. A copy of NRC Form 314 and a copy of a radiation survey showing that no radiation is present in New Science Facility Room 2309 are attached.

As indicated on Form 314, all radioactive materials covered by our license have been sent to Duratek Services in Oak Ridge TN for disposal. Please let me know if you required a detailed list or waste manifests for the disposal of these materials.

With thanks,



John E. Rebers, Ph.D.
Radiation Safety Officer

RECEIVED MAY 13 2015

(05-2012)
10 CFR 30.36(j)(1); 40.42(j)(1);
70.38(j)(1); and 72.54(k)(5)(1)(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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@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

Northern Michigan University
1401 Presque Isle Avenue
Marquette MI 49855-5341

LICENSE NUMBER

21-09119-02

DOCKET NUMBER

030-08204

LICENSE EXPIRATION DATE

August 31, 2017

A. LICENSE STATUS (Check the appropriate box)

- ☐ This license has expired. ☒ 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:
- ☒ b. Disposal of radioactive materials:
- ☐ 1. Directly by the licensee:
- ☒ 2. By licensed disposal site:
- Duratek Services, Inc., PO Box 2530, 1560 Bear Creek Road, Oak Ridge, TN 37831-2530
865-481-0222
- ☐ 3. By waste contractor:
- ☐ 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	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
John E. Rebers, PhD	Radiation Safety Officer	(906) 227-1585	jrebers@nmu.edu

Mail all future correspondence regarding this license to:

Dr. John Rebers, Department of Biology, Northern Michigan University, 1401 Presque Isle Avenue, Marquette MI 49855

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE	SIGNATURE	DATE
John E. Rebers, Head, Department of Biology		5/7/2015

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.

Radiation Survey – New Sciences Facility, NSF 2309

In order to determine if any radiation was present after using NSF 2309 for working with and storing radioisotopes, all areas where radioisotopes had been used or stored in this room were swabbed with glass fiber filters. The filters were then counted using Scintiverse scintillation cocktail using a Beckman Coulter LS6500 Scintillation Counter located at Michigan Technological University. Counting was completed on August 30, 2013. Results are shown below.

As indicated, all results showed background levels of radioactivity.

Radiation Survey Results - 30 August 2013		
Sample	Area Surveyed	CPM
1	NSF 2309 Refrigerator/Freezer - left exterior	21.90
2	2309 Refrigerator/Freezer - right exterior	22.50
3	2309 Refrigerator/Freezer - top exterior	22.30
4	2309 Refrigerator/Freezer - freezer door (outside)	20.50
5	2309 Refrigerator/Freezer - refrigerator door (outside)	20.10
6	2309 Refrigerator/Freezer - inside wall, freezer (left)	20.40
7	2309 Refrigerator/Freezer - inside wall, freezer (right)	19.20
8	2309 Refrigerator/Freezer - inside freezer (bottom)	20.50
9	2309 Refrigerator/Freezer - freezer door (inside)	23.30
10	2309 Refrigerator/Freezer - refrigerator door (inside)	22.50
11	2309 Refrigerator/Freezer - left interior wall	21.60
12	2309 Refrigerator/Freezer - right interior wall	18.60
13	2309 Refrigerator/Freezer - back interior	20.50
14	2309 Refrigerator/Freezer - bottom interior	23.30
15	2309 Refrigerator/Freezer - drawer in refrigerator	24.10
16	2309 Left bench	21.70
17	2309 Center bench, left side	21.90
18	2309 Center bench, right side	22.20
19	2309 Right bench	21.30
20	2309 fume hood	23.60
21	2309, cabinet to right of hood	19.40
22	2309, cabinet to right of hood	19.60
23	2309, cabinet under right of hood, marked "corrosives"	20.40
24	2309, cabinet under right of hood, marked "corrosives"	19.30
25	Glass fiber filter + Scintiverse control	19.60
26	Scintiverse control	19.40

John Rebers



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