

STATE OF WISCONSIN
DEPARTMENT OF HEALTH SERVICES
 Bureau of Environmental and Occupational Health

RADIOACTIVE MATERIALS LICENSE

Under Wisconsin Stat. §.254.365 and Wisconsin Administrative Code chapter DHS 157, in reliance on statements and representations made by the licensee, a license is issued authorizing the licensee to receive, acquire, possess and transfer radioactive material designated below; to use the material for the purpose(s) and at the place(s) designated below; and to deliver or transfer the material to persons authorized to receive it in accordance with Chapter DHS 157, Wisconsin Administrative Code. This license is subject to all applicable rules and orders of the Wisconsin Department of Health Services (DHS) including Chapter DHS 157, Wisconsin Administrative Code now or hereafter in effect, and to conditions specified below:

Licensee Name and Address 1. Marquette University, DBA - Office of Research Compliance 2. PO Box 1881 Milwaukee, WI 53201-1881		In accordance with application dated February 03, 2023, 3. License No.: 079-1161-01 is renewed in its entirety to read as follows: 4. Amendment No.: 10 5. Expiration Date: March 31, 2028	
6. Radioactive material	7. Chemical and/or physical form	8. Maximum amount of radioactive materials that the licensee may possess at any one time under this license:	9. Authorized Use:
A. Hydrogen-3	A. Any	A. 400 millicuries	A. Research and development as defined in DHS 157.03; animal studies; teaching and training of students.
B. Carbon-14	B. Any	B. 50 millicuries	B. Research and development as defined in DHS 157.03; animal studies; teaching and training of students.
C. Iodine-125	C. Any	C. 5 millicuries	C. Research and development as defined in DHS 157.03; animal studies; teaching and training of students.
D. Phosphorus-32	D. Any	D. 150 millicuries	D. Research and development as defined in DHS 157.03;

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Supplementary Sheet

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6. Radioactive material	7. Chemical and/or physical form	8. Maximum amount of radioactive materials that the licensee may possess at any one time under this license:	9. Authorized Use:
E. Phosphorus-33	E. Any	E. 10 millicuries	animal studies; teaching and training of students. E. Research and development as defined in DHS 157.03; animal studies; teaching and training of students.
F. Sulfur-35	F. Any	F. 100 millicuries	F. Research and development as defined in DHS 157.03; animal studies; teaching and training of students.
G. Cobalt-57	G. Sealed source registered either with NRC under 10 CFR 32.210 or with an Agreement State	G. 200 millicuries	G. For storage only, pending disposal.

CONDITIONS

10. Licensed material may be used and stored at the licensee's facilities located at Wehr Chemistry: 1414 West Clybourn Street, Milwaukee; Wehr Physics: 1420 West Clybourn Street, Milwaukee; Wehr Life Sciences: 1428 West Clybourn Street, Milwaukee; Schroeder Complex: 560 North 16th Street, Milwaukee; and Cramer Hall: 604 North 16th Street, Milwaukee.
11. The Radiation Safety Officer for this license is Jane E. Dorweiler, Ph.D.
12. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in the letter dated March 28, 2023, have been instructed in the licensee's operating and emergency procedures, and have been approved in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for three years after the individual's last use of license material.
13. The licensee is authorized to transport licensed material in accordance with the provisions of Chapter DHS 157, Subchapter XIII, Transportation.
14. Licensed material shall not be used in or on human beings.

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15. Licensed material shall not be used in field applications where it is released.
16. Detector cells containing licensed material shall not be opened or foil sources removed from the detector cells by the licensee.
17. Animals, or the products from animals, that have been administered licensed material shall not be used for human consumption.
18. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by DHS, to account for all sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, location of sealed sources and/or devices, and the date of the inventory.
19. The license does not authorize commercial distribution of licensed material.
20. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 90 days for decay-in-storage before disposal in ordinary trash, provided:
 - A. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - B. A record of each such disposal permitted under this license condition shall be retained for three years. The record must include the date of disposal, the date on which the radioactive material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
21. In lieu of s. DHS 157.13(4)(i); s. DHS 157.68(2)(a); s. DHS 157.61(1)(b) and (c); s. DHS 157.61(4)(b); s. DHS 157.61(5), (7) to (10), and (12); s. DHS 157.63(3) to (6); s. DHS 157.64(1) and (4) to (8); s. DHS 157.65(1), (8) to (10); s. DHS 157.66; s. DHS 157.67(1), (4), (15), (17), and (18); s. DHS 157.72(1); s. DHS 157.94(5); s. DHS 157.9708(4); and s. DHS 157.9719, the licensee shall comply with Title 10, Code of Federal Regulations:
 - (a) Part 30 section 30.34(g);
 - (b) Part 32 section 32.72; and
 - (c) 35.2 Definitions: Associate Radiation Safety Officer, Ophthalmic Physicist; and

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- (d) Part 35 sections 35.24(b), 35.24(c), 35.40(b), 35.41, 35.50, 35.51, 35.55, 35.57, 35.190, 35.204, 35.290, 35.300, 35.390, 35.392, 35.394, 35.396, 35.400, 35.433, 35.490, 35.491, 35.500, 35.590, 35.600, 35.610, 35.655, 35.690, 35.3045, and 35.3204; and
- (e) Part 37 sections 37.77(a) and 37.43(d); and
- (f) Part 71 section 71.97.

Except as follows:

- (a) Any reference to the Commission or NRC shall be deemed to be a reference to the Wisconsin Department of Health Services, except:
 - a. References to "NRC or Agreement State", "Commission or an Agreement State", or "Commission or Agreement State" shall be deemed to be a reference to "Wisconsin Department of Health Services, NRC, or an Agreement State";
 - b. References to Commission master materials licensees, permittees, permits, permittees of broad scope, and broad scope medical use permittees; and
 - c. References to NRC's Medical Uses Licensee Toolkit web page; and
 - d. References to the NRC Web site; and
 - e. References to U.S. Nuclear Regulatory Commission as part of a mailing address.
- (b) License required reports of events or notifications in 30.34(g), 35.204, 35.3204, 35.3045, and 37.77(a) shall use DHS contact information in DHS 157.13(17).

22. Wisconsin Administrative Code Chapter DHS 157 shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the rule. 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 enclosures, listed below.
- A. Application dated February 3, 2023 and signed by Jeanne M. Hossenlopp.
 - B. Letter with attachments dated March 28, 2023 and signed by Jane Dorweiler.



Digitally signed by Megan Shober
Date: 2023.05.08 13:13:41 -05'00'

2023/05/08

SIGNATURE - Materials Program Supervisor

Date Signed