

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, 37, 39, 40, 70 and 71, 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 style="text-align: center;">Licensee</p> <p>1. DLP Marquette General Hospital, LLC d/b/a UP Health System - Marquette</p> <p>2. 850 W. Baraga Avenue Marquette, MI 49855</p>	<p>In accordance with letter dated October 11, 2021,</p>	<p>4. Expiration Date: July 31, 2024</p>
	<p>3. License No.: 21-05432-04 is amended in its entirety to read as follows:</p>	<p>5. Docket No.: 030-18133 Reference No.:</p>

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	9. Authorized use
A. Any byproduct material permitted by 10 CFR 35.100	A. Any	A. As Needed	A. For use in uptake, dilution and excretion studies permitted by 10 CFR 35.100.
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As Needed	B. For use in imaging and localization studies permitted by 10 CFR 35.200.
C. Any byproduct material permitted by 10 CFR 35.300	C. Any	C. 9 curies total	C. For any use permitted by 10 CFR 35.300.
D. Yttrium-90 permitted by 10 CFR 35.1000	D. Microspheres (Sirtex Wilmington LLC, Sirtex Medical Limited, or ANSTO Radiopharmaceuticals and Industrials, Model SIR-Spheres microspheres)	D. 1.08 curies total	D. For medical use, as permitted by 10 CFR 35.1000, in a Sirtex Medical Limited brachytherapy afterloader delivery system.

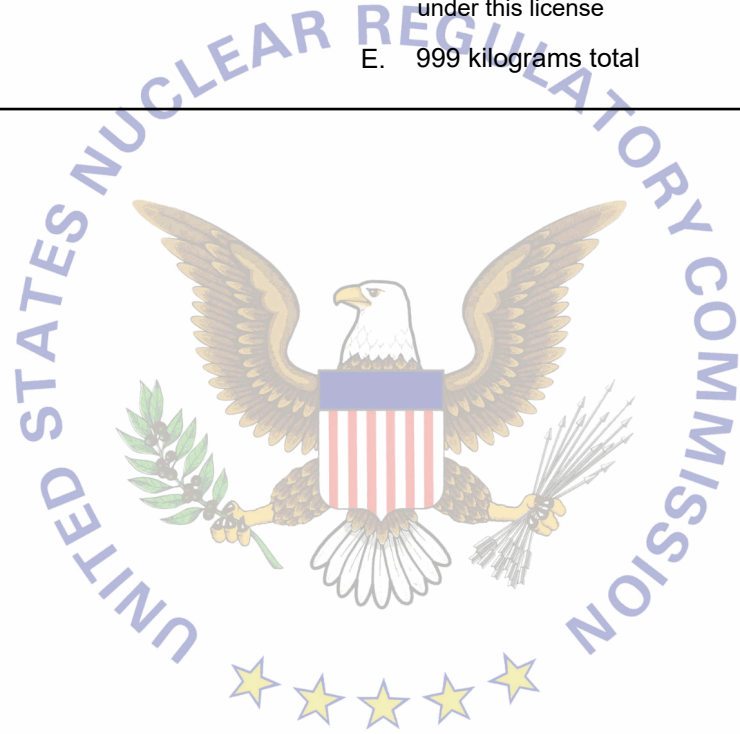
**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.: 21-05432-04

Docket or Reference No.:
030-18133

Amendment No. 87

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|---|----------------------------------|--|--|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form | 8. Maximum amount that licensee may possess at any one time under this license | 9. Authorized use |
| E. Uranium- depleted in Uranium-235 | E. Metal | E. 999 kilograms total | E. In solid, metal form, for use as shielding in generators. |



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CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 850 W. Baraga Avenue, Marquette, Michigan, 49855.
11. The Radiation Safety Officer (RSO) for this license is William Pyle, CNMT.
12. Licensed material shall only be used by, or under the supervision of:
- A. Individuals permitted to work as authorized users in accordance with 10 CFR 35.13 and 10 CFR 35.14.
- B. The following individuals are authorized users for the material and medical uses as indicated:
- | <u>Authorized User (M.D.,D.O.,etc.)</u> | <u>Material and Use</u> |
|---|---|
| James R. Baer, M.D. | 10 CFR 35.300 |
| John Phillip Cox, D.O. | 10 CFR 35.100,10 CFR 35.200; 10 CFR 35.300 (limited to the oral administration of sodium iodide I-131) |
| Gary M. Friesen, M.D. | 10 CFR 35.200 |
| Nelson E. Gencheff, D.O. | 10 CFR 35.200 |
| Jacob M. Hakkola, M.D. | 10 CFR 35.1000 (limited to yttrium-90 SIR-spheres in a Sirtex Medical Limited brachytherapy afterloader delivery system) |
| Christopher J. Mehall, M.D. | 10 CFR 35.100,10 CFR 35.200,10 CFR 35.300; 10 CFR 35.1000 (limited to yttrium-90 SIR-spheres in a Sirtex Medical Limited brachytherapy afterloader delivery system) |
| Michael Ouimette, M.D. | 10 CFR 35.100,10 CFR 35.200,10 CFR 35.300; 10 CFR 35.1000 (limited to yttrium-90 SIR-spheres in a Sirtex Medical Limited brachytherapy afterloader delivery system) |
| John Michael Pap, M.D. | 10 CFR 35.100,10 CFR 35.200 |

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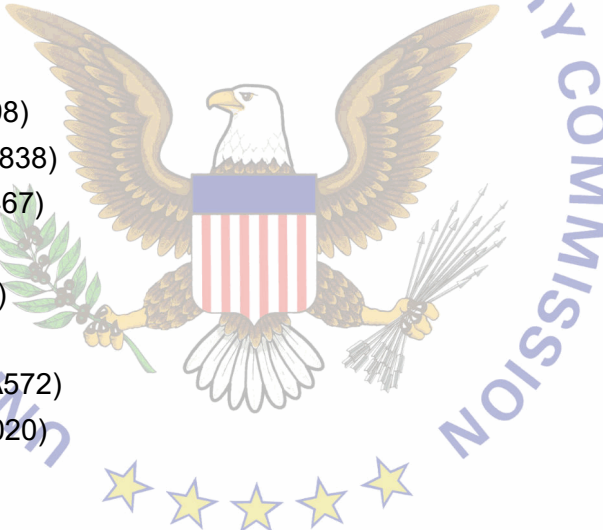
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13. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U.S. 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. Letter dated April 11, 2005 (ML051050330)
- B. Letter dated May 25, 2005 (ML052000293)
- C. Letter dated August 12, 2009 (ML092360298)
- D. Letter dated February 23, 2010 (ML100541838)
- E. Letter dated February 7, 2014 (ML14050A467)
- F. Letter dated May 13, 2014 (ML14140A191)
- G. Letter dated June 19, 2014 (ML14182A333)
- H. Letter dated July 28, 2014 (ML14223A605)
- I. Letter dated December 1, 2014 (ML14343A572)
- J. Letter dated January 16, 2015 (ML15064A020)
- K. Letter dated July 8, 2015 (ML15191A375)
- L. Letter dated May 11, 2017 (ML17143A164)
- M. Letter dated June 13, 2017 (ML17164A067)
- N. Letter dated June 22, 2017 (ML17173A814)
- O. Letter dated August 8, 2017 (ML17236A256)
- P. Letter dated June 18, 2018 (ML18187A242)
- Q. Letter dated August 17, 2018 (ML18235A115)
- R. Letter dated August 28, 2018 (ML18241A261)



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- S. Letter dated September 20, 2018 (ML18290A547)
- T. Letter dated October 21, 2018 (ML18302A105)
- U. Letter dated November 16, 2018 (ML18323A475)
- V. Letter dated December 11, 2018 (ML18352B126)
- W. Letter dated December 18, 2018 (ML18352A716)
- X. Letter dated January 29, 2019 (ML19029B191)
- Y. Letter dated July 11, 2019 (ML19196A363)
- Z. Letter dated November 5, 2019 (ML19310D787)
- AA. Letter dated October 11, 2021 (ML21295A071)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: November 4, 2021

By: _____

Laura B. Cender
Region 3