

**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, and 70, 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. Genesys Regional Medical Center</p> <p>2. One Genesys Parkway Grand Blanc, MI 48439</p>	<p>In accordance with letter dated <b>September 16, 2014,</b></p> <p>3. License number 21-26740-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date <b>June 30, 2022</b></p> <hr/> <p>5. Docket No. 030-34188 Reference No.</p>
-----------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material permitted by 10 CFR 35.100</p> <p>B. Any byproduct material permitted by 10 CFR 35.200</p> <p>C. Any byproduct material permitted by 10 CFR 35.300</p> <p>D. <b>Iodine-125</b> permitted by 10 CFR 35.400</p> <p>E. <b>Palladium-103</b> permitted by 10 CFR 35.400</p> <p>F. Depleted uranium</p> <p>G. Gadolinium-153 permitted by 10 CFR 35.500</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p> <p>D. Sealed sources (Medi-Physics, Inc. Model Nos. 6733 and 6711; <b>Theragenics Corporation Model No. AgX100</b>)</p> <p>E. Sealed sources (<b>Theragenics Corporation TheraSeed® Model 200</b>)</p> <p>F. Metal</p> <p>G. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible device as specified in Item 9 of this license.</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As needed</p> <p>B. As needed</p> <p>C. One curie</p> <p>D. One curie</p> <p>E. One curie</p> <p>F. 999 kilograms</p> <p>G. 28 sources, not to exceed 240 millicuries total. Four replacement sources not to exceed 20 millicuries each. Total possession limit 768 millicuries.</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
21-26740-01

Docket or Reference Number  
030-34188

Amendment No. 15

9. Authorized use:
- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
  - B. Any imaging and localization study permitted by 10 CFR 35.200.
  - C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
  - D. and E. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
  - F. Shielding in a linear accelerator.
  - G. Diagnostic medical use of twenty-eight sealed sources of varying activities, as permitted by 10 CFR 35.500, in a Siemens Medical Systems Profile Attenuation Correction System transmission line source housing device for medical radiography in humans. Four sources in their shipping containers for replacement sources.

CONDITIONS

10. A. Licensed material may be used or stored only at the licensee's facilities located at One Genesys Parkway, Grand Blanc, Michigan.
- B. Licensed materials in Item 6.E. may be used at the licensee's facilities located at the Radiation Oncology Center, 302 Kensington Avenue, Flint, Michigan.
11. A. Radiation Safety Officer: Steve Min, D.O.
- B. Assistant Radiation Safety Officer (Brachytherapy): Ibrahim S. Abdulhay, Ph.D.
12. Licensed material is only authorized for use by, or under the supervision of:
- A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.
  - B. The following individuals are authorized users for medical use as indicated:

Authorized Users

Material and Use

Haesook S. Kim, M.D.

10 CFR 35.300 and 35.400.

Dong-Whan Oh, M.D.

10 CFR 35.300 limited to Sr-89, and 35.400.

Ahmed M. Akl, M.D.

10 CFR 35.300 and 35.400.

Michael A. Gedwill, D.O.

10 CFR 35.100 and 35.200.

Steve Min, D.O.

10 CFR 35.100, 35.200, and 35.300.

Ram K. Gadam, M.D.

10 CFR 35.100, 35.200, 35.300 and 35.400.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number

21-26740-01

Docket or Reference Number

030-34188

Amendment No. 15

Authorized UsersMaterial and Use

Shahzad Sadiq, M.D.

10 CFR 35.100, 35.200, and 35.300.

Scott E. Cheney, M.D.

10 CFR 35.100 and 35.200.

Sanjay J. Talati, M.D.

10 CFR 35.100 and 35.200.

Mark Robert Ludka, M.D.

10 CFR 35.100, 35.200 and 35.300.

Kristin M. Nelsen, M.D.

10 CFR 35.100 and 35.200.

Sambasiva Kottamasu, M.D.

10 CFR 35.100, 35.200, and 35.300 (limited to oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries)

Harvey Yee, M.D.

10 CFR 35.100, 35.200, and 35.300.

George Ascherl, M.D.

10 CFR 35.100, 35.200, and 35.300.

Chirdeep Bhutani, M.D.

10 CFR 35.100, 35.200, and 35.300.

13. The licensee is authorized to receive, possess, and use sealed sources of gadolinium-153 where the radioactivity exceeds the maximum amount of radioactivity specified in this license provided:
- A. Such possession does not exceed the quantity per source specified in Item 8 by more than 20 percent for gadolinium-153; and
  - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in this license was ordered from the supplier or transferor of the byproduct material; and
  - C. The levels of radiation for the Siemens Medical Systems E-cam Attenuation Correction Profile device do not exceed those specified in the Sealed Source and Device Registry Sheet.
14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall follow the "Registry of Radioactive Sealed Sources and Devices Safety Evaluation of Device" No. IL-605-D-105-S for the Siemens E-cam Attenuation Correction Profile device as it pertains to description (installation), conditions of normal use, limitations and other considerations of use.
16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
21-26740-01Docket or Reference Number  
030-34188

Amendment No. 15

17. 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. Application dated December 22, 2011; and
  - B. Letter dated December 21, 2011; and
  - C. Facsimile dated June 18, 2012.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date SEP 18 2014By *Dennis P. O'Dowd*  
Dennis P. O'Dowd  
Materials Licensing Branch  
Region III