NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 86

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, 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. 0C02120 31830

Licensee	
1. DMC/Sinai-Grace Hospital Radiation Oncology Center 2. 6071 West Outer Drive Detroit, Michigan 48235	In accordance with letter dated **July 15, 2009,** 3. License number 21-00299-04 is amended in its entirety to read as follows: 4. Expiration date April 30, 2014 5. Docket No. 030-01992 Reference No.

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
A. Any byproduct material permitted by 10 CFR 35.100	A. Any	A. As needed
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As needed
C. Any byproduct material permitted by 10 CFR 35.300	C. Any	C. As needed (not to exceed 2 curies of iodine-131)
D. Any byproduct material permitted by 10 CFR 35.400	D. Sealed sources (Model numbers described in facsimile dated April 12, 2004)	D. 2 curies
E. Uranium, depleted in uranium-235	E. Cadmium plated metal	E. 999 kilograms

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. Any manual brachytherapy procedure permitted by 10 CFR 35.400.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
21-00299-04
Docket or Reference Number
030-01992

Amendment No. 86

E. For shielding in a linear accelerator

CONDITIONS

10. Licensed material may be used at the licensee's facilities located at Sinai-Grace Hospital, 6071 West Outer Drive, Detroit, Michigan.

11. Radiation Safety Officer: Timothy Applegate, RT (N)

12. **Licensed material is only authorized for use by, or under the supervision of:**

    A. Individuals permitted to work as an authorized user, authorized nuclear pharmacist, and/or authorized medical physicist 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
Richard N. Joyrich, M.D.	10 CFR 35.100, 35.200 and 35.300.
Kimberly Hart, M.D.	10 CFR 35.400.
Yogesh Mody, M.D.	10 CFR 35.100, 35.200 and 35.300.
Thomas Matthys, M.D.	10 CFR 35.100, 35.200 and 35.300.
Daniel J. Walz, M.D.	10 CFR 35.100, 35.200 and 35.300.
Andrew T. Turrisi, III, M.D.	10 CFR 35.300 and 35.400.
Harold Kim, M.D.	10 CFR 35.300 and 35.400.
Jennifer Webb Holt, M.D.	10 CFR 35.400.
Oussama Salim Khayyat, M.D.	**10 CFR 35.100, 35.200 and 35.300 limited to sodium iodide I-131 in quantities less than or equal to 33 millicuries**
Subash Chander, M.D.	**100 CFR 35.100, 35.200 and 35.300.**

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

14. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
21-00299-04
Docket or Reference Number
030-01992

Amendment No. 86

15. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply:

    A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.

    B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.

    C. Sealed sources need not be tested if they contain not more than 100 microcuries of beta and/or gamma-emitting material

    D. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

    E. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations

    F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

16. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license

17. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
21-00299-04
Docket or Reference Number
030-01992

Amendment No. 86

18. 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 October 11, 2003;

    B. Facsimile dated September 28, 2007;

    C. Letters dated April 25, 2008, July 30, 2008, **July 15, 2009** and **September 18, 2009**.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date OCT 0 7 2009

By Toye L. Simmons
Toye L. Simmons
Materials Licensing Branch
Region III