

**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.

<p>Licensee</p> <p>1. DMS Health Technologies</p> <p>2. 109 South Petro Avenue Sioux Falls, South Dakota 57107</p>	<p>In accordance with letter dated February 7, 2012</p> <p>3. License number 40-32477-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date December 31, 2011</p> <p>5. Docket No. 030-36404 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 materials permitted by 10 CFR 31.11</p> <p>D. Cesium-137</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Prepackage Kits</p> <p>D. Sealed source (QSA Global, Inc., Model 77302)</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. 30 millicuries total</p> <p>D. 200 millicuries per source and 200 millicuries total</p>
<p>9. Authorized use:</p> <p>A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.</p> <p>B. Any imaging and localization study permitted by 10 CFR 35.200.</p> <p>C. <u>In vitro</u> studies.</p> <p>D. For use in a Technical Operations, Inc. Model 773 calibrator for training and calibration of licensee's survey meters and personnel dosimeters.</p>		

**CONDITIONS**

10. A. Licensed material may be received, stored, and dispatched from the licensee's facilities located at:
- (i) 109 South Petro Avenue, Sioux Falls, South Dakota
  - (ii) 305 7<sup>th</sup> Avenue SE., Watertown, South Dakota
  - (iii) 1222 West Cherry Street, Vermillion, South Dakota

# **MATERIALS LICENSE SUPPLEMENTARY SHEET**

License Number  
40-32477-01

Docket or Reference Number  
030-36404

Amendment No. 30

- B. Licensed material may be received by licensee personnel only, used, and stored at the following fixed facilities located at:

- (i) 109 South Petro Avenue, Sioux Falls, South Dakota
- (ii) 917 North Washington, Madison, South Dakota (excluding Item 6.D.)

- C. Licensed material (excluding Item 6.D.) may be used at temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

11. A. The Radiation Safety Officer (RSO) for this license is Michelle White.

- B. The Alternate Radiation Safety Officer (ARSO) for this license is Mary Hennings-Frank.

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 the material and medical uses indicated:

<u>Authorized Users</u>	<u>Material and Use</u>
Hemant D. Chheda, M.D.	35.100; 35.200 except generators and reagent kits
John Dahlin, M.D.	35.100; 35.200
Marilin F. Espino-Maya	35.100; 35.200 except generators and reagent kits
Mark Farnham, M.D.	35.100; 35.200
Christopher D. Fischer, M.D.	35.100; 35.200; 31.11
David J. Germain, M.D.	35.100; 35.200 except generators and reagent kits
Arthur Greene, M.D.	35.100; 35.200
K. John Heilman, M.D.	35.100; 35.200
Paul S. Jones, M.D.	35.100; 35.200
Orvar T. Jonsson, M.D.	35.200
Jihad M. Khalil, M.D.	35.200
William Koury, M.D.	35.100; 35.200
Fred Clinton Lovrien, M.D.	35.100; 35.200; 31.11

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

 License Number  
40-32477-01

 Docket or Reference Number  
030-36404

Amendment No. 30

Authorized Users
Material and Use

Barry Scott Monfore, M.D.	35.100; 35.200
Leelakrishna Nallamshetty, M.D.	35.100; 35.200 except generators and reagent kits
Marian S. Petrasko, M.D.	35.200
Dean K. Rigby, M.D.	35.100; 35.200
Paul R. Rust, M.D.	35.100; 35.200
Larry S. Sidaway, M.D.	35.100; 35.200
Amolak Singh, M.D.	35.100; 35.200
Adams T. Stys, M.D.	35.100; 35.200
Tomasz P. Stys, M.D.	35.100; 35.200
Steven J. Taggart, M.D.	35.100; 35.200
Arliss N. Thompson, M.D.	35.100; 35.200; 31.11
Enrique J. Urrutia, M.D.	35.100; 35.200 except generators and reagent kits
James Spaulding Walder, M.D.	35.200
David Lawrence Wells, M.D.	35.100; 35.200
Peter Wenig, M.D.	35.100; 35.200
Paul M. Williams, D.O.	35.100; 35.200
John K. Williams, M.D.	35.100; 35.200

13. 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. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. 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.
- D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
40-32477-01Docket or Reference Number  
030-36404

Amendment No. 30

- E. 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.
- F. 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. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 612 East Lamar Blvd., Suite 400, Arlington, Texas 76011-4125, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- G. 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.
- H. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every 6 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. 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, and the date of the inventory.
16. 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 financial assurance for decommissioning.
17. 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  
40-32477-01Docket or Reference Number  
030-36404

Amendment No. 30

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 November 2, 1995
  - B. Letter dated April 1, 1996
  - C. Letter dated June 4, 1996
  - D. Letter dated February 18, 1997
  - E. Letter dated July 30, 1999
  - F. Facsimile dated November 10, 2000
  - G. Letter dated November 15, 2000
  - H. Facsimile dated February 2, 2001
  - I. Application dated June 26, 2001
  - J. Facsimile dated December 10, 2001
  - K. Letter dated December 21, 2001
  - L. Letter dated January 3, 2002
  - M. Letter dated March 27, 2002
  - N. Letter dated July 11, 2002
  - O. Letter dated September 19, 2002 (with enclosed clearer prints for review)
  - P. Letter dated July 16, 2003
  - Q. Letter dated December 11, 2003
  - R. Letter dated February 2, 2004
  - S. Letter dated February 6, 2004
  - T. Letter dated February 26, 2004
  - U. Letter dated July 16, 2004 (with attached closeout surveys for Lone Pine Plaza, Suite 6, 3801 Bemidji Avenue N., Bemidji, MN and 323 S. Minnesota Street, Cookston, MN)
  - V. Letter dated September 24, 2004 (with attachments)
  - W. Letter dated October 14, 2004
  - X. Letter dated November 1, 2004
  - Y. Letter dated December 15, 2004
  - Z. Letter dated February 4, 2005 (with attachments)



**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
**40-32477-01**Docket or Reference Number  
**030-36404**

Amendment No. 30

AA. Letter dated May 26, 2005  
BB. Letter dated July 7, 2005  
CC. Letter received September 29, 2005  
DD. Letter dated May 8, 2006  
EE. Letter dated September 20, 2006 (ML062850191)  
FF. Letter dated September 18, 2009 (ML092890610)  
GG. Letter dated December 22, 2009 (ML093560611)  
HH. Letter dated January 11, 2010 (ML100550100)  
II. Letter dated November 4, 2010 (ML103481058)  
JJ. Letter dated May 9, 2011 (ML11145A145)  
KK. Letter dated June 17, 2011 (ML11180A197)  
LL. Letter dated February 7, 2012



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: February 7, 2012

/RA/  
By: Jacqueline D. Cook, Senior Health Physicist  
Nuclear Materials Safety Branch B  
Region IV  
Arlington, Texas 76011-4511