

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 22

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 style="text-align: center;">Licensee</p> <p>1. Front Range Nuclear Services</p> <p>2. 213 South Avenue C-1 Cheyenne, Wyoming 82007</p>	<p>In accordance with facsimile and letter dated July 5, 2010</p> <p>3. License number 49-27531-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date June 30, 2011</p> <p>5. Docket No. 030-33968 Reference No.</p>
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<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>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</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>
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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.

CONDITIONS

10. A. Licensed material may be used or stored at Cheyenne Medical Specialist (CMS), 5050 Powderhouse Road, Cheyenne, Wyoming.
- B. Licensed material may be stored at 2000 Campbell Drive, Torrington, Wyoming, as described in letters dated May 1, 2007 (ML071340168), and June 19, 2007 (ML071710318).
- C. Licensed material may be stored at 213 South Avenue C-1, Cheyenne, Wyoming.
- D. Licensed material may be stored at 6658 Road 43, Torrington, Wyoming.
- E. Licensed material may be used or stored at Willow Creek, 3235 Sparks Road, #200, Cheyenne, Wyoming.

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- F. Licensed material identified in 10 CFR 35.100 and 35.200 (except gases), 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. The Radiation Safety Officer for this license is Valerie Johnson.
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>
Larry James Hattel, M.D.	35.100; 35.200
S. A. Hayden, M.D.	35.100; 35.200
Mark E. Howshar, M.D.	35.100; 35.200
Eric B. Hoyer, M.D.	35.100; 35.200
J. G. Hubbard, M.D.	35.100; 35.200
Robert Jakob Kahn, M.D.	35.100; 35.200
D. M. Kellam, MD.	35.100; 35.200
William D. Ketcham II, M.D.	35.100; 35.200
David W. McNaul, M.D.	35.100; 35.200
Daniel R. Possehn, D.O.	35.100; 35.200
Robert L. Stears, M.D.	35.100; 35.200
J. W. Wright, M.D.	35.100; 35.200

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 financial assurance for decommissioning.
14. 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 U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State.

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- 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 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 leak 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.
- 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 microcuries (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcuries (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 the corrective action taken.
- F. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
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.
16. Sealed sources or detector cells containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee.
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."

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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 16, 2000	(ML003779820)
B. Letter received June 5, 2001	(ML011720452)
C. Letter dated June 20, 2001	(ML011720452)
D. Letter dated January 3, 2002	(ML020100165)
E. Letter dated July 26, 2004	(ML042300164)
F. Facsimile dated July 19, 2005	(ML052090098)
G. Letter dated September 14, 2005	(ML053250484)
H. Letter dated November 8, 2005	(ML053250484)
I. Letter dated December 19, 2005	(ML060050638)
J. Letter dated July 19, 2006	(ML062890186)
K. Letter dated May 1, 2007	(ML071340168)
L. Letter dated June 19, 2007	(ML071710318)
M. Letter dated September 20, 2007	(ML072920532)
N. Letter dated November 6, 2007	(ML073250002)
O. Facsimile dated December 5, 2007	(ML073440043)
P. Facsimile dated April 6, 2009	(ML091410292)
Q. Letter dated July 27, 2009	(ML092190507)
R. Letter dated February 28, 2011	(ML11069A044)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Date: March 30, 2011

By: _____
Lizette Roldán-Otero, Ph.D., Health Physicist
Nuclear Materials Safety Branch B
Region IV
Arlington, Texas 76011-4125