

**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.

<b>Licensee</b>  1. Front Range Nuclear Services  2. 213 South Avenue C-1 Cheyenne, WY 82007		In accordance with application dated April 22, 2021; and E-mail dated October 13, 2021  3. License No.: 49-27531-01 is renewed in its entirety to read as follows:	4. Expiration Date: October 31, 2036  5. Docket No.: 030-33968 Reference No.:
6. Byproduct, source, and/or special nuclear material  A. Any byproduct material permitted by 10 CFR 35.100  B. Any byproduct material permitted by 10 CFR 35.200  C. Any byproduct material permitted by 10 CFR 35.65	7. Chemical and/or physical form  A. Any  B. Any  C. Sealed Sources	8. Maximum amount that licensee may possess at any one time under this license  A. As Needed  B. As Needed  C. 12 millicuries total	9. Authorized use  A. For use in uptake, dilution and excretion studies permitted by 10 CFR 35.100.  B. For use in imaging and localization studies permitted by 10 CFR 35.200.  C. To be used for calibration of licensee's gamma cameras in the licensee's repair shop in accordance with letter dated February 23, 2015.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License No.: 49-27531-01

Amendment No. 36

Docket or Reference No.:  
030-33968**CONDITIONS**

10. A. Licensed material listed in Subitem Nos. 6.A. and 6.B. shall be used at the licensee's facilities located at Cheyenne Medical Specialist (CMS), 5050 Powderhouse Road, Cheyenne, Wyoming 82009.
- B. Licensed material listed in Subitem Nos. 6.A. and 6.B. shall be used or stored at the licensee's facilities located at 2000 Campbell Drive, Torrington, Wyoming 82240, as described in application dated April 22, 2021 (ML21118A853).
- C. Licensed material listed in Subitem Nos. 6.A. and 6.B. shall be used or stored at the licensee's facilities located at 213 South Avenue C-1, Cheyenne, Wyoming 82007 (FRNS's main office).
- D. Licensed material listed in Subitem Nos. 6.A. and 6.B. shall be stored at the licensee's facilities located at 6658 Road 43, Torrington, Wyoming 82240 (Joe Cole's Property).
- E. Licensed material listed in Subitem Nos. 6.A. and 6.B. shall be used or stored at the licensee's facilities located at Platte County Memorial, 201 14th Street Wheatland, Wyoming 82201.
- F. Licensed material listed in Subitem No. 6.C. shall be used for storage/repair of gamma cameras at the licensee's facilities located at 4912 Ridge Road, Cheyenne, Wyoming 82009 (FRNS's "Ridge Property").
- G. Licensed material listed in Subitem Nos. 6.A. and 6.B. may be used or stored only at temporary job sites of the licensee 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 should be obtained from the appropriate state regulatory agency.

11. The Radiation Safety Officer (RSO) for this license is Valerie Johnson, CNMT, RT(R)(N).

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License No.: 49-27531-01

Docket or Reference No.:  
030-33968

Amendment No. 36

12. Licensed material shall only be used by, or under the supervision of:

A. Individuals permitted to work as authorized users, authorized nuclear pharmacists, and/or authorized medical physicists, 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>
Wendy Austin, M.D.	35.200
William Baker, M.D.	35.200
Satish J. Chacko, M.D.	35.200
Tristan Dow, M.D.	35.200
C. Patrick Green, M.D.	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
D. M. Kellam, M.D.	35.100; 35.200
William D. Ketcham, II	35.100; 35.200
Daniel R. Possehn, D.O.	35.100; 35.200
Zaki Refaat, M.D.	35.200
Lance C. Richards, D.O.	35.200
Chad L. Stoltz, M.D.	35.200
Stephen A. Treat, M.D.	35.200
Weston W. Whittington, M.D.	35.200
J. W. Wright, M.D.	35.100; 35.200

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License No.: 49-27531-01

Amendment No. 36

Docket or Reference No.:  
030-33968

13. 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 by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
- 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 by 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 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) 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 other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- G. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License No.: 49-27531-01

Amendment No. 36

Docket or Reference No.:  
030-33968

14. 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 sealed sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 3 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.
15. Licensed material incident to mobile nuclear medicine activities may be delivered to the licensee's mobile van located at temporary job sites when trained licensee personnel are present to receive the licensed material.
16. 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 statements, representations, and 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 impose on the licensee requirements that are more restrictive than or in addition to the regulations.
- A. Application dated April 22, 2021 (ML21118A853)  
B. E-Mail dated October 13, 2021 (ML2122A063)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: October 24, 2021By: \_\_\_\_\_  
Latischa M. Hanson  
Region IV