U.S. NUCLEAR REGULATORY COMMISSION

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.

and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.								
Licensee 1. Foundation Health LLC d/b/a Fairbanks Memorial Hospital			In accordance with letter dated April 30, 2020,		4. Expiration Date: April 30, 2022			
2.	1650 Cowles Street Fairbanks, AK 99701		ES AND CO			: 50-13648-01 is its entirety to read as		cket No.: 030-03509 ference No.:
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/or physical for	m	8.	Maximum amount that licens may possess at any one timunder this license		. Authorized use
A.	Any byproduct material permitted by 10 CFR 35.100	A.	Any		Α.	As Needed	Α	For use in uptake, dilution and excretion studies permitted by 10 CFR 35.100.
В.	Any byproduct material permitted by 10 CFR 35.200	В.	Any	a	В.	As Needed	В	 For use in imaging and localization studies permitted by 10 CFR 35.200.
C.	Any byproduct material permitted by 10 CFR 35.300	C.	Any	**	C.	3.2 curies total	С	For any use permitted by 10 CFR 35.300.
D.	lodine-125 permitted by 10 CFR 35.400	D.	Sealed Sources (Bard Brachytherapy, Inc., Mode 1251)	el STM	D.	1.5 curies total	D	For any manual brachytherapy procedure permitted by 10 CFR 35.400.
E.	Palladium-103 permitted by 10 CFR 35.400	E.	Sealed Sources (Therage Corporation, Model Thera 200)		E.	500 millicuries total	E	. For any manual brachytherapy procedure permitted by 10 CFR 35.400.

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MATERIALS LICENSE	Lice	License No.: 50-13648-01 Docket or		Docket or Refe	t or Reference No.:		
SUPPLEMENTARY SHEE	Γ Ame	endment No. 59					
Byproduct, source, and/or special nuclear material	emical and/or phy	/or physical form 8. Maximum amount that licensee may possess at any one time under this license		at any one time	9.	Authorized use	
Zie NE An	aled Sources (Egler Isotope Pro S-8412 or A34 erican Scientifi D 3601)	oducts, Model 10; North	F. 300 millicurie and 1.2 curie		F.	For use in attenuation correction of gamma camera imaging systems.	
	TED STATE			COMMISSION			

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MATERIALS LICENSE	License No.: 50-13648-01 Docket or Reference No.: 030-03509			
SUPPLEMENTARY SHEET	Amendment No. 59			

CONDITIONS

- 10. Licensed material may be used or stored at the licensee's facilities located at 1650 Cowles Street, Fairbanks, Alaska, 99701
- 11. The Radiation Safety Officer for this license is Mark Burton, M.D.
- 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:

Authorized User (M.D.,D.O.,etc.)	Material and Use
Mark Burton, M.D.	35.100; 35.200; 35.300; Gadolinium-153 for attenuation correction in imaging systems
Janice Chen, M.D.	35.100; 35.200; 35.300; Gadolinium-153 for attenuation correction in imaging systems
David L. Evans, M.D.	35.100; 35.200; oral administration of sodium iodide I-131; parenteral administration of any beta-emitter, or photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required
Keir Fowler, M.D.	35.100; 35.200; 35.300; Gadolinium-153 for attenuation correction in imaging systems
Richard A. Hattan, M.D.	35.100; 35.200; oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries; Gadolinium-153 for attenuation correction in imaging systems
Joel S. Marquess, M.D.	35.100; 35.200; oral administration of sodium iodide I-131
Jessica E. Panko, M.D.	35.100, 35.200; oral administration of sodium iodide I-131
Timothy Ryan, M.D.	35.100; 35.200
Essam Shihadeh, M.D.	35.400
Claire M. Waite, M.D.	35.100; 35.200; oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries

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Authorized User (M.D., D.O., etc.) Material and Use Gregory James Wood, D.O. 35.100; 35.200 **R REG**35.100; 35.200 **R REG** 35.100; 35.200

Romel Wrenn, M.D.

- 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 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. 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.
 - 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.

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- 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.
- 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 (becquerels) and shall be maintained for 3 years.
- 14. Sealed sources 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 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.

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 Except as specifically provided otherwise representations, and procedures contained those procedures that are required to be licensee's ability to make changes to the Commission's regulations shall govern uncorrespondence are more restrictive than A. Application dated October 20, 2011 (No. 2012). Application dated April 10, 2012 with attach C. Letter dated October 26, 2016 (ML163). Change of control form dated November 26. 	ed in the documents, including any enclosubmitted in accordance with the regular radiation protection program as provide aless the statements, representations, at the regulations. ML11314A028) Imments (ML121080398) 313A129)	osures, listed below. This license contions. Additionally, this license condition 10 CFR 35.26. The U.S. Nu	ondition applies only to dition does not limit the uclear Regulatory
	FOR	THE U.S. NUCLEAR REGULATO	RY COMMISSION
Date:June 4, 2020		Casey Alldredge Region IV	