NRC FORM 374 PAGE 1 OF 10 PAGES U.S. NUCLEAR REGULATORY COMMISSION Amendment No. 30 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. Licensee In accordance with application 4. Expiration Date: November 30, 2036 dated June 03, 2021; and letter 1. Alliance HealthCare Services, Inc. dated June 03, 2021, 5. Docket No.: 030-35774 2. 18201 Von Karman Ave. 3. License No.: 47-25570-01 is Reference No.: STE 600 renewed in its entirety to read as Irvine, CA 92612 follows: 6. Byproduct, source, 7. Chemical and/or physical form Maximum amount that licensee 9. Authorized use 8. and/or special nuclear may possess at any one time under this license material A. Any byproduct material A. As Needed A. For use in imaging and localization A. Anv permitted by 10 CFR studies permitted by 10 CFR 35.200. 35.200 200 millicuries tota B. Any Except Sealed Sources B. B. For decay in storage only in B. Strontium-82 accordance with 10 CFR 35.92. C. Any Except Sealed Sources C. 1 curie total C. Strontium-85 C. For decay in storage only in accordance with 10 CFR 35.92. 50 millicuries total D. Germanium-68 D. Sealed Sources D. For storage only, limited to one year, incident to transfer in accordance with 10 CFR 30.41.

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			License No.: 47-25570-01	Docket or Reference No.: 030-35774	
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			CONDITIONS		
10.	A.	Licensed material listed in Subitem N of the licensee anywhere in the Unite use of licensed material, including an	ed States where the U.S. Nuclear R	egulatory Commission maintains j	
		If the jurisdiction status of a Federal controlling the job site in question to for use of radioactive materials at job appropriate state regulatory agency.	determine whether the proposed jo sites in Agreement States not und	b site is an area of exclusive Fede	ral jurisdiction. Authorization
	B. Licensed material listed in Subitem Nos. 6.B and 6.C., limited to strontium waste generated incident to mobile nuclear medicine activities, shall be stored at the licensee's facilities located at 525 S Gould St., Owosso, Michigan, for decay in storage in accordance with 10 CFR 35.92.				
	C.	Licensed material listed in Subitem Medicine vans, shall be stored at the transfer to an authorized recipient in	e licensee's facilities located at 525		
11.	Th	e Radiation Safety Officer for this licer	nse is Kay Kassel, M. <mark>S</mark> ., C.N.M.T.		
12.	Lic	ensed material shall only be used by,	or under the supervision of:		
	A.	Individuals permitted to work as auth	orized users in accordance with 10	CFR 35.13 and 10 CFR 35.14.	
	В.	The following individuals are authoriz		cal uses as indicated:	
		<u>Authorized User (M.D.,D.O.,etc.)</u> David Abramowitz, M.D.	<u>Material and Use</u> 10 CFR 35.200		

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Authorized User (M.D.,D.O.,etc.)	Material and Use		
Irfan Ahmad, M.D.	10 CFR 35.200		
Afzal Ahmed, M.D.	10 CFR 35.200	U	
Mark J. Akers, M.D.	10 CFR 35.200	ULAX	
Paul D. Akers, M.D.	10 CFR 35.200	0	
Syed I. Ali, M.D.	10 CFR 35.200	P	
Rajaa M. Almestady, M.D.	10 CFR 35.200	-1	
Daniel Altman, M.D.	44 10 CFR 35.200	C C	
Marsha Anderson, M.D.	10 CFR 35.200	Ö	
Mark C. Arvin, M.D.	10 CFR 35.200		
Akhtar Ashraf, M.D.	10 CFR 35.200	State 2	
James Baek, M.D.	10 CFR 35.200		
Indraneel Banerji, M.D.	10 CFR 35.200	i i i i i i i i i i i i i i i i i i i	
David Bauer, M.D.	10 CFR 35.200	S S	
James R. Bergh, M.D.	10 CFR 35.200		
Richard R. Black, D.O.	10 CFR 35.200	4	
Rodger Blake, M.D.	10 CFR 35.200	× ·	
Paul Henry Blom, M.D.	10 CFR 35.200 🔭 🔭 📉		
Suzanne Bosman, M.D.	10 CFR 35.200		
Joel A. Brake, M.D.	10 CFR 35.200		
James M. Browne, M.D.	10 CFR 35.200		
Douglas A. Bruns, D.O.	10 CFR 35.200		
David J. Burkart, M.D.	10 CFR 35.200		
Jeffery S. Cahoon, M.D.	10 CFR 35.200		
James Paul Carl, M.D.	10 CFR 35.200		

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Authorized User (M.D.,D.O.,etc.)	Material and Use		
Peter Chirico, M.D.	10 CFR 35.200		
Corey W. Chopra, M.D.	10 CFR 35.200 R REC	SU,	
Jesse A. Cole, M.D.	10 CFR 35.200		
Ricky J. Compton, M.D.	10 CFR 35.200	BULAZ	
John Phillip Cox, D.O.	10 CFR 35.200	P	
Robert J. Cure, M.D.	10 CFR 35.200	1	
Anthony R. D'Amico, M.D.	44 10 CFR 35.200	0	
Ryan Daily, M.D.	5 10 CFR 35.200		
Kyle L. Dale, M.D.	10 CFR 35.200		
Daniel J. Daunhauer, M.D.	10 CFR 35.200	stalala 2	
Vu Quoc Do, M.D.	10 CFR 35.200		
Sarsfield Patrick Dougherty, M.D.	0 10 CFR 35.200	i i i i i i i i i i i i i i i i i i i	
Hans G. Dransfeld, M.D.	10 CFR 35.200	S	
Joseph W. Dransfeld, M.D.	10 CFR 35.200		
Nathaniel D. Dueker, M.D.	10 CFR 35.200	4	
Douglas M. Dunco, M.D.	10 CFR 35.200		
Rodney A. Dunseath, D.O.	10 CFR 35.200 📈 📈 🏏		
Paul H. Eikens, M.D.	10 CFR 35.200		
Mark W. Elliott, M.D.	10 CFR 35.200		
Susannah G. Ellsworth, M.D	10 CFR 35.200		
Adwoa Essel, M.D.	10 CFR 35.200		
Hilary Ann Evans, M.D.	10 CFR 35.200		
Thomas H. Farquhar, M.D., Ph.D.	10 CFR 35.200		
Angelo Steven Ferraro, M.D.	10 CFR 35.200		

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SUPPLEMENTARY SHEET	Amendment No. 30		
Authorized User (M.D.,D.O.,etc.)	Material and Use		
Luke Gerges, D.O.	10 CFR 35.200		
Joshua Dale Gibson, M.D.	10 CFR 35.200 R REG	111	
Kendall Goldschmidt, M.D.	10 CFR 35.200		
Lee Corey Haikal, M.D.	10 CFR 35.200	ULAZ	
Nathan R. Hatfield, M.D.	10 CFR 35.200	D	
David Damion Hazlett, Jr., M.D.	10 CFR 35.200	L'L	
Jeffrey A. Hicklin, M.D.	44 10 CFR 35.200	0	
Robert Hills, D.O.	5 10 CFR 35.200	i i i i i i i i i i i i i i i i i i i	
Ronald D. Jenkins, M.D.	10 CFR 35.200		
John Kalabat, M.D.	10 CFR 35.200	Stale/a 🗮	
Craig S. Kamen, M.D.	10 CFR 35.200		
Prasanta K. Karak, M.D.	2 10 CFR 35.200	i i i i i i i i i i i i i i i i i i i	
Kevin Matthew Kavanaugh, M.D.	10 CFR 35.200	S S	
Jeffrey Kaye, M.D.	10 CFR 35.200		
Imran Kazem, M.D.	10 CFR 35.200	4	
Stephen Joowhan Kim, M.D.	10 CFR 35.200	**	
Philip Kohanski, M.D.	10 CFR 35.200	Y	
Kenneth L. Koontz, M.D.	10 CFR 35.200		
Michael V. Korona, Jr., M.D.	10 CFR 35.200		
Gary W. Kravetz, M.D.	10 CFR 35.200		
Adam Thomas Krompecher, M.D.	10 CFR 35.200		
Francisco J. Lammoglia, M.D.	10 CFR 35.200		
Christopher J. Leary, M.D.	10 CFR 35.200		
Terry S. Lee, M.D.	10 CFR 35.200		

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Authorized User (M.D.,D.O.,etc.) Eric L. Leonard, M.D. Donald Lewis, M.D. Edward J. Maas, M.D. Colleen M. Madden, M.D. Mrinal Mali, M.D. Michael J. Malnofski, M.D. A. Jane MaLoof, M.D. Jack D. Markiewicz, M.D. Phyllis Martin-Simmerman, M.D. Villiam Mason, M.D. Matthew E. Maxwell, M.D. Matthew E. Maxwell, M.D. Kichard D. Miller, M.D. Elvin McCarl, M.D. Elvin McCarl, M.D. Steve Min, D.O. Virginia Molleran, M.D. Craig Moore, M.D. Joshua A. Nepute, M.D. Kevin O'Brien, M.D. Patrick M. O'Toole, M.D. Dana Olson, M.D. Robert Oostveen, M.D. Samir Parikh, M.D. Bharat Patel, M.D.	Material and Use 10 CFR 35.200 10	ULA TO AL COM	

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SUPPLEMENTARY SHEET	Amendment No. 30		
Authorized User (M.D.,D.O.,etc.)	Material and Use		
Grant D. Petty, M.D.	10 CFR 35.200		
Krishna R. Pillai, M.D.	10 CFR 35.200 R REG	11,	
James Milton Reynolds, M.D.	10 CFR 35.200		
Reuben Rock, M.D.	10 CFR 35.200	ULAZ	
Daniel Adam Rodgers, M.D.	10 CFR 35.200	P P	
Colin Rose, M.D.	10 CFR 35.200	"L	
Heather Rose, M.D.	44 10 CFR 35.200		
Ronald J. Rosenberg, M.D.	10 CFR 35.200	i iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	
Aldo Ruffolo, M.D.	10 CFR 35.200		
Paul Sanchirico, M.D.	10 CFR 35.200	State 2	
Mark Shaman, M.D.	10 CFR 35.200		
Paul W. Sheets, M.D.	0 10 CFR 35.200	i i i i i i i i i i i i i i i i i i i	
Steven K. Shekut, M.D.	10 CFR 35.200	S S	
Charles W. Siegler, M.D.	10 CFR 35.200		
Justin Sims, M.D.	10 CFR 35.200	N	
Stacy L. Spooner, M.D.	10 CFR 35.200	×	
Gregory R. Spurling, M.D.	10 CFR 35.200	v	
Michael A. Stewart, M.D.	10 CFR 35.200		
LeAnn Stidham, M.D.	10 CFR 35.200		
Nathan M. Strabala, M.D.	10 CFR 35.200		
Victoria A. Swegles, D.O.	10 CFR 35.200		
Sanjay J. Talati, M.D.	10 CFR 35.200		
Shrey K. Thawait, M.D.	10 CFR 35.200		
Smari Thordarson, M.D.	10 CFR 35.200		

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Authorized User (M.D.,D.O.,etc.)	Material and Use		
Walter Parke Thrush, M.D.			
Paul E. Timperman, M.D.	10 CFR 35.200 R REG//,		
Gregory T. Turner, M.D.	10 CFR 35.200	4.	
Torin P. Walters, M.D.	10 CFR 35.200 10 CFR 35.200 10 CFR 35.200 10 CFR 35.200		
James K. Watson, M.D.	10 CFR 35.200	(D)	
Ronald R. Weis, M.D.	() 10 CFR 35.200	- L	
Jonathan W. Weiss, M.D.	40 10 CFR 35.200	0	
Michael Whisenant, M.D.	10 CFR 35.200	Ö	
Thomas T. Win, M.D.	10 CFR 35.200	Ν	
Milton R. Wolf, M.D.	10 CFR 35.200	Alat.	
Ehab H. Youssef, M.D.	10 CFR 35.200	S S	
John S. Yungmeyer, M.D.	○ 10 CFR 35.200	S	
Roy W. "Chip" Zimmer, III, M.D.	10 CFR 35.200	6	
C. The following individuals are authori	zed users for nonmedical uses as indicat	ed:	
Non-Medical Use	Material and Use	*	
Kay Kassel, M.S., C.N.M.T.	Strontium-82/85 for decay-in-storage	; Germanium-68 sealed sources for	or storage only

- 13. 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.
- 14. Sealed sources containing licensed material shall not be opened by the licensee, except as specifically authorized.

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- 15. 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 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.

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- 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. Letter, Application, and Delegation of Authority dated June 3, 2021, excluding Radiation Safety Program policies and procedures (ML21172A247)

EIND AND AC

B. Letter dated October 18, 2021 (ML21299A298)

## FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: November 2, 2021

By:

Magdalena R. Gryglak Region 3