NRC FORM 374 PAGE 1 OF 7 PAGES U.S. NUCLEAR REGULATORY COMMISSION Amendment No. 1 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 letters dated 4. Expiration Date: November 30, 2038 February 29, 2024, March 1, 2024, 1. 3M Healthcare US Opco, LLC May 3, 2024, and May 23, 2024, 5. Docket No.: 030-39354 2. 3M Center, Building 275 3. License No.: 22-00057-65 is Reference No.: Maplewood, MN 55144 amended in its entirety to read as follows: S 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 material under this license 1 curie per source and 4 A. Krypton-85 A. Sealed Sources (Diligistics. A. A. For use in Honeywell International, LLC, Model Kr85.T4 (T-Series); curies total Inc., Model 4203 Series fixed gauging Eckert & Ziegler Isotope devices to perform thickness or weight Products, Model NER-586, measurements. NER-586M, KAC.D2, KAC.D5; QSA Global, Inc., Model KR85.2) 400 millicuries per source B. Krypton-85 B. Sealed Sources (Isotope B. For use in Mahlo America, Inc., Model Β. and 5.6 curies total Product Laboratories. Model 11-200933 fixed gauging devices to NER-584; QSA Global, Inc., perform thickness or weight Model KAC.D1, KAC.D3) measurements. C. Krypton-85 C. Sealed Sources (Diligistics. C. 200 millicuries per source C. For use in NDC Technologies Model LLC. Model Kr85.T3: Eckert & and 1.2 curies total 302 fixed gauging devices to perform thickness or weight measurements. Ziegler Isotope Products, Model SIF.Da, KAC.Da, PHC.C1, NER 584, NER 585)

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6.	Byproduct, source, and/or special nuclear material	7.	Chemical and	/or physical form	8. R	Maximum amo may possess a under this lice	ount that licensee at any one time nse	9.	Authorized use
D.	Promethium-147	D.	Sealed Sour Inc., Model F	ces (QSA Global, PHC.C1)	D.	999 millicurie and 4 curies	s per source total	D.	For use in Mahlo America, Inc., Model 11-200933 fixed gauging devices to perform thickness or weight measurements.
E.	Cesium-137	E.	Sealed Sour	ces	E.	10 microcurie and 100 micr	es per source ocuries total	E.	For use as calibration and/or reference standards.
F.	Cobalt-60	F.	Sealed Sour	ces	F.	10 microcurie and 100 micr	es per source ocuries total	F.	For use as calibration and/or reference standards.
G.	Plutonium-239	G.	Sealed Sour	ces	G.	10 microcurie and 100 micr	es per source ocuries total	G.	For use as calibration and/or reference standards.
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			CONDITIONS		
10.	Lice Dał	ensed material shall be used or stored kota, 57006.	at the licensee's facilities located at Bro	ookings Plant, 601 22nd Avenue	South, Brookings, South
11.	The	e Radiation Safety Officer (RSO) for thi	is license is Joshua J. Schmidt.	OB	
12.	Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the letter dated September 1, 2023, and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.				
13.	A.	Sealed sources and detector cells sh the certificate of registration issued b the absence of a registration certifica months, or at such other intervals as	all be tested for leakage and/or contam y the U.S. Nuclear Regulatory Commissi ite, sealed sources shall be tested for le specified.	ination at intervals not to exceed sion under 10 CFR 32.210 or by akage and/or contamination at ir	the intervals specified in an Agreement State. In ntervals not to exceed 6
	B.	In the absence of a certificate from a of registration issued by the U.S. Nuc transfer, a sealed source received from	transferor indicating that a leak test has clear Regulatory Commission under 10 om another person shall not be put into	s been made within the intervals CFR 32.210 or by an Agreement use until tested and the test resu	specified in the certificate State, prior to the llts received.
	C.	Sealed sources need not be tested if is 30 days or less; or they contain no microcuries of alpha-emitting materia	they contain only hydrogen-3; or they c t more than 100 microcuries of beta- an al.	ontain only a radioactive gas; or d/or gamma-emitting material or	the half-life of the isotope not more than 10
	D.	Sealed sources need not be tested if use or transferred to another person, transfer. No sealed source shall be s	they are in storage and are not being u and have not been tested within the re- tored for a period of more than 10 years	sed. However, when they are re quired leak test interval, they sha without being tested for leakage	moved from storage for all be tested before use or e and/or contamination.

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- 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. Analysis of leak test samples and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is authorized to collect leak test samples but not perform the analysis.
- G. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
- 14. Sealed sources containing licensed material shall not be opened or removed from source holders by the licensee, except as specifically authorized.
- 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 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.
- 16. A. Each gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or at such longer intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or the equivalent regulations of an Agreement State.
  - B. The periodic on-off mechanism (shutter) and indicator test requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use. Records of test results shall be maintained for 3 years from the date of each test.

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	<ul> <li>(i) Installation, (ii) relocation, (iii) removal from service, (iv) alignment, and (v) replacement shall be performed only by individuals who have completed the training specified in letters dated September 1, 2023 and November 2, 2023, or by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.</li> <li>(i) Initial radiation surveys shall be performed only by Joshua J. Schmidt, Jessica Goerdt, Scott Huneycutt, Trenton Yadro or other individuals who have completed the training specified in letters dated September 1, 2023 and November 2, 2023, or by persons specifically licensed september 1, 2023 and November 2, 2023, or other individuals who have completed the training specified in letters dated September 1, 2023 and November 2, 2023, or by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.</li> </ul>				

- C. The following services shall not be performed by the licensee: (i) dismantling, (ii) disposal of the sealed source, and (iii) non-routine maintenance or repair of components related to the radiological safety of the gauge (i.e., the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, shielding). These services shall be performed only by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- 18. The licensee may initially mount a gauge, if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State, and under the following conditions:
  - A. The gauge must be mounted in accordance with written instructions provided by the manufacturer.
  - B. The gauge must be mounted in a location compatible with the Conditions of Normal Use and Limitations and/or Other Considerations of Use in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
  - C. The on-off mechanism (shutter) must be locked in the off position, if applicable, or the source must be otherwise fully shielded.
  - D. The gauge must be received in good conditions (e.g., the package was not damaged).
  - E. The gauge must not require any modification to fit in the proposed location.

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19.	<ul> <li>Mounting does not include electrical connigauge may not be used until it is installed Commission or an Agreement State to perform the licensee may maintain, repair, or containing licensed material and that beam or result in increased radiation</li> </ul>	ection, activation, or operation of the ga and made operational by a person spec rform such operations.	uge. The source must remain fully shielded, and the cifically licensed by the U.S. Nuclear Regulatory of related to the radiological safety of the device tion of the body to come into contact with the primary			
	<ul> <li>B. The licensee may not maintain, reparent (iii) source drive mechanism, (iv) on-the radiological safety of the device,</li> </ul>	ir, or replace any of the following device off mechanism (shutter), (v) shutter cont except as provided otherwise by specific	components: (i) the sealed source, (ii) the source holder, rol, (vi) shielding, or (vii) any other component related to c condition of this license.			
20.	20. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the U.S. Nuclear Regulatory Commission or an Agreement State.					
21.	The licensee shall operate each device co limits such that the shielding and shutter i	ontaining licensed material within the ma mechanism of the source holder are not	anufacturer's specified temperature and environmental compromised.			
22.	The licensee shall assure that the shutter periods when a portion of an individual's b appropriate, its "lock-out" procedures whe	mechanism of each device containing li body may be subject to the direct radiation enever a new device is obtained to incor	censed material is locked in the closed position during on beam. The licensee shall review and modify, as porate the device manufacturer's recommendations.			
23.	Except for maintaining labeling as require Regulatory Commission before making an description or specifications as indicated Commission pursuant to 10 CFR 32.210 of	ed by 10 CFR Part 20, or Part 71, the lice ny changes in the sealed source, device in the respective certificate of registratio or by an Agreement State.	ensee shall obtain authorization from the U.S. Nuclear , or source-device combination that would alter the n issued either by the U.S. Nuclear Regulatory			

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24. Except as specifically provided otherw	vise in this license, the licensee shall c	onduct its program in accordance w	vith 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 requilations. The U.S. Nuclear				

those statements, representations, and procedures that are required to be submitted in accordance with the regulations. 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 September 1, 2023 (ML23248A498)
- B. Letter dated November 2, 2023 with attachments (ML23306A171)
- C. Letter dated November 27, 2023 (ML23332A141)
- D. Letter dated March 1, 2024 with training and experience for ARSO Jessica Goerdt (ML24121A027)

E. Letter dated May 23, 2024 with attached non-routine maintenance procedures (ML24145A082)

## FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: May 24, 2024

By:

Roberto J. Torres Region IV