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.

Licensee				In accordance with letter dated		4. Expiration Date: June 30, 2037		
1. TRC Engineers, Inc.				November 02, 2021,				
2.	16000 Commerce Park Suite B MT. Laurel, NJ 08054-2	•	ES ANCES		: 29-27857-01 is ts entirety to read as	_	ret No.: 030-29302 rence No.:	
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/or physical form	78 2000000	Maximum amount that licens may possess at any one time under this license	_	Authorized use	
A.	Cesium-137	A.	Sealed Sources (AEA Technology/ QSA, Inc., Moc CDCW556; Isotope Produc Laboratories, Model HEG-1	at .	9 millicuries per source and 189 millicuries total	A.	For use in Troxler Electronic Laboratories Model 3400 series portable gauging devices for measuring physical properties of materials.	
B.	Cesium-137	B.	Sealed Sources (CPN, Mod CPN-131)	del B.	10 millicuries per source and 189 millicuries total	В.	For use in CPN International Model MC series portable gauging devices for measuring physical properties of materials.	
C.	Americium-241/ Beryllium	C.	Sealed Sources (AEA Technology/QSA, Inc., Mod AMNV.997; Isotope Produc Laboratories, Model 3021; 3027; AM1.NO2)		44 millicuries per source and 934 millicuries total	C.	For use in Troxler Electronic Laboratories Model 3400 series portable gauging devices for measuring physical properties of materials.	

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6. Byproduct, source, and/or special nuclear material		AR	may possess under this lice		9.	Authorized use	
D. Americium-241/ Beryllium	D. Sealed Sour CPN-131)	ces (CPN, Model	D. 50 millicuries and 934 milli	s per source curies total	D.	For use in CPN International Model MC series portable gauging devices for measuring physical properties of materials.	
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CONDITIONS

10. Licensed material may be used 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. <<!!NoSequence!!>>

- 11. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in application dated November 2, 2021, 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.
- 12. The Radiation Safety Officer for this license is Mario R. Marra
- 13. Sealed sources and source rods containing licensed material shall not be opened or sources removed or detached from source rods by the licensee, except as specifically authorized.
- 14. Sealed sources and detector cells 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.

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- 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. 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.
- E. 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.
- F. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.
- 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. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport or storage, or when not under the direct surveillance of an authorized user.
- 17. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

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18. The licensee is authorized to transport lic Radioactive Material."	ensed material in accordance with the p	rovisions of 10 CFR 71, "Packagin	g and Transportation of		
representations, and procedures containe Commission's regulations shall govern ur correspondence are more restrictive than	Radioactive Material." D. 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. 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 November 2, 2021 (ML21363A071)				
	FOR	THE U.S. NUCLEAR REGULATO	RY COMMISSION		
Date: <u>June 19, 2022</u>		lichael Reichard Legion 1			