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 1. HK Contractors, Inc.				In accordance with letter dated April 19, 2018		4. Expiration Date: May 31, 2020	
2.	2031 Heyrend Way Idaho Falls, ID 83402		ar		mber: 11-27658-01 is its entirety to read as		et No.: 030-35327 rence No.:
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/or physical form	8	Maximum amount that license may possess at any one time under this license		Authorized use
A.	Cesium-137	A.	Sealed Sources (AEA Technology/ QSA Global, Inc., Model CDCW556; Isotope Products Laboratories, Model HEG-137)	A.	9 millicuries per source and 81 millicuries total	A.	For use in Troxler Electronic Laboratories, Inc., Models 3400 Series and 3411 portable gauges for measuring physical properties of materials.
B.	Americium-241/ Beryllium	B.	Sealed Neutron Source (AEA Technology/ QSA Global, Inc., Model AMNV.997; Isotope Products Laboratories, Model AM1.NO2, 3021, 3027)	WB)	44 millicuries per source and 396 millicuries total	B.	For use in Troxler Electronic Laboratories, Inc., Models 3400 Series and 3411 portable gauges for measuring physical properties of materials.
C.	Americium-241/ Beryllium	C.	Sealed Neutron Source (CPN International, Inc., Model MC Series PORTAPROBE)	C.	50 millicuries per source and 50 millicuries total	C.	For use in CPN International, Inc., Model MC Series PORTAPROBE portable gauges for measuring physical properties of materials.

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Byproduct, source, 7. Chemical and and/or special nuclear material		ount that licensee 9. Authorized use at any one time ense					
D. Cesium-137 D. Sealed Sou Internationa Series POR	II, Inc., Model MC and 10 million	D. For use in CPN International, Inc., Model MC Series PORTAPROBE portable gauges for measuring physical properties of materials.					
CONDITIONS 10. Licensed material may be used or stored at the licensee's facilities located at: 2031 Heyrend Way, Idaho Falls, Idaho, 83402; and							
Licensed material may be used at temporary job sites 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 shall be obtained from the appropriate state regulatory agency.							
1	9, 2010. The licensee shall maintain rec	sical presence of, individuals who have received the training cords of individuals designated as users for 3 years					

13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in

absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6

the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the

12. The Radiation Safety Officer (RSO) for this license is Travis Palmer.

months, or at such other intervals as specified.

- B. Not withstanding 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 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.
- 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.
- F. 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. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 1600 East Lamar Blvd., Arlington, Texas 76011-4511, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- G. 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.

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- H. 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 sources 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. Except for maintaining labeling as required by 10 CFR Part 20, or Part 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective certificate of registration issued either by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or by an Agreement State.
- 17. 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.
- 18. Any cleaning, maintenance, or repair of the gauge(s) 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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 19. Except as specifically provided otherwise representations, and procedures contained those procedures that are required to be regulations shall govern unless the statement restrictive than the regulations. A. Application dated March 9, 2010 (ML1 B. Letter with enclosures dated May 14, 2 C. Letter dated June 26, 2013 (ML13191) 	ed in the documents, including any enclosubmitted in accordance with the regularients, representations, and procedures 00970720) 2010 (ML101380665)	osures, listed below. This license of tions. The U.S. Nuclear Regulator	condition applies only to ry Commission's
Date: August 10, 2019		THE U.S. NUCLEAR REGULATO	RY COMMISSION
Date: August 10, 2018	By: _ J F	acqueline D. Cook Region IV	