NRC FORM 374 PAGE 1 OF 4 PAGES **U.S. NUCLEAR REGULATORY COMMISSION** Amendment No. 5 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 the application 4. Expiration Date: March 31, 2035 dated December 10, 2019, 1. Jefferson, Brenner and Smith, Inc. CAR REGI dba Southern Consulting 5. Docket No.: 030-35281 Reference No.: 2. 1208 Highway 47 East 3. License number: 41-25501-01 is Dickson, TN 27055 renewed in its entirety to read as follows: 7. Chemical and/or physical form Maximum amount that licensee Byproduct, source, 8. 9. Authorized use 6. and/or special nuclear may possess at any one time material under this license A. Sealed Sources (AEA A. Cesium-137 Α. 65 millicuries total. No A. For use in Humboldt Scientific. Inc. Technology/QSA, Inc., Model single source to exceed Model 5001 Series: CPN International CDC.805; CPN International, the maximum activity Model MC Series: and InstroTek. Inc. Model CPN-131; IPL, Model specified in the certificate Model 3500 Xplorer portable gauging of registration issued by HEG-137) devices for measuring physical the U.S. Nuclear properties of materials. Regulatory Commission or an Agreement State 280 millicuries total. No B. Americium-241/ B. Sealed Sources (AEA B. For use in Humboldt Scientific, Inc. Technology/QSA, Inc., Model single source to exceed Model 5001 Series; CPN International Beryllium AMN.V997; CPN International, the maximum activity Model MC Series; and InstroTek, Inc. Model CPN-131; IPL, Model specified in the certificate Model 3500 Xplorer portable gauging of registration issued by devices for measuring physical AM1.NO2) the U.S. Nuclear properties of materials. Regulatory Commission or an Agreement State

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	CONDI	TIONS	
10. Licensed material may be used at tem maintains jurisdiction for regulating the		e United States where the U.S. Nuclear F ding areas of exclusive Federal jurisdictio	•
controlling the job site in question to d	etermine whether the proposed	e is unknown, the licensee should contact job site is an area of exclusive Federal ju er exclusive Federal jurisdiction shall be o	irisdiction. Authorization for
11. Licensed material shall only be used to described in the application dated Dec following the last use of licensed mate	cember 10, 2019. The licensee	in the physical presence of, individuals v shall maintain records of individuals desig	
12. The Radiation Safety Officer (RSO) fo	r this license is Trent B. Smith.	S	
÷ .	clear Regulatory Commission u	at intervals not to exceed the intervals spinder 10 CFR 32.210 or by an Agreement and/or contamination at intervals not to e	State. In the absence of a
registration issued by the U.S. Nu	clear Regulatory Commission u	eak test has been made within the interva nder 10 CFR 32.210 or by an Agreement use until tested and the test results receiv	State, prior to the transfer, a
or transferred to another person, a	and have not been tested within	not being used. However, when they are the required leak test interval, they shall an 10 years without being tested for leaka	be tested before use or

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- 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.
- 14. Sealed sources or source rods containing licensed material shall not be opened or detached from source rods, 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. 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 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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18. 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 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 are more restrictive than the regulations.

- A. Application dated December 10, 2019 (ML20017A223)
- B. Letter dated March 11, 2020 excluding the facility diagram (ML20078J785)
- C. Letter dated March 17, 2020

## FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: March 19, 2020

By:

Jonathan Pfingsten Region 1