NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

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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: December 31, 2021			
1. AECOM Technical Services of Michigan, Inc.	EAR REGU				
2. 31701 Research Park Dr. Madison Heights, MI 48071	3. License number: 48-18672-011s amended in its entirety to read as follows:	5. Docket No.: 030-14020 Reference No.:			
 Byproduct, source, And/or physical for and/or special nuclear 	orm. 8. Maximum amount that licen may possess at any one tim under this license	see 9. Authorized use			
A. Cesium-137 A. Sealed Sources (AEA Technology/QSA, Inc. N CDCW556; (sotope Proc Laboratories, Model HEC	A. 9 millicuries per source and 27 millicuries total s-137)	 A. For use in Troxler Electronic Laboratories Model 3400 Series portable gauging devices for measuring physical properties of materials. 			
B. Americium-241 B. Sealed Sources (AEA Technology/QSA, Inc., M AMNV.997; Isotope Proc Laboratories, Model Am 3021; 3027)	Iodel Iuct 1.NO21	 B. For use in Troxler Electronic Laboratories Model 3400 Series portable gauging devices for measuring physical properties of materials. 			
CONDITIONS					
10. Licensed material may be used or stored at the licensee's facilities located at: 31701 Research Park Dr., Madison Heights, Michigan, 48071					

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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.					
11. The Radiation Safety Officer (RSO) for this license is Nico G. Morelli.					
12. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the letter dated November 7, 2017. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.					
 A. Sealed sources and detector cells sh the certificate of registration issued b absence of a registration certificate, months, or at such other intervals as 	hall be tested for leakage and/or contam by the U.S. Nuclear Regulatory Commis sealed sources shall be tested for leaka specified.	ination at intervals not to exceed sion under 10 CFR 32.210 or by a ge and/or contamination at interv	the intervals specified in an Agreement State. In the rals not to exceed 6		
B. In the absence of a certificate from a registration issued by the U.S. Nucle sealed source received from another	a transferor indicating that a leak test has ear Regulatory Commission under 10 CF r person shall not be put into use until te	s been made within the intervals R 32.210 or by an Agreement St sted and the test results received	specified in the certificate of ate, prior to the transfer, a l.		
C. Sealed sources need not be tested in or transferred to another person, and transfer. No sealed source shall be s	f they are in storage and are not being u d have not been tested within the require stored for a period of more than 10 years	sed. However, when they are rer ed leak test interval, they shall be s without being tested for leakage	noved from storage for use tested before use or and/or contamination.		

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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 Commission or an Agreement State the analysis.	contamination shall be performed by performed by perform such services. The licensee	ersons specifically licensed by the is authorized to collect leak test s	U.S. Nuclear Regulatory amples but not perform			
F. Records of leak test results shall be	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 sources removed from source holders or detached from source rods by the licensee, except as specifically authorized.						
 Except for maintaining labeling as requi Regulatory Commission before making description or specifications as indicated Commission pursuant to 10 CFR 32.210 	red by 10 CFR Part 20, or Part 71, the lin any changes in the sealed source, devic d in the respective certificate of registration or by an Agreement State.	ensee shall obtain authorization e, or source-device combination on issued either by the U.S. Nucl	from the U.S. Nuclear that would alter the ear Regulatory			
16. 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.						
17. Each portable nuclear gauge shall have sealed source from its shielded position direct surveillance of an authorized use	a lock or outer locked container designe . The gauge or its container must be loc r.	ed to prevent unauthorized or acc ked when in transport or storage,	idental removal of the or when not under the			

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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.				

19. 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 January 11, 2011 (ML110130616)
- B. Letter dated February 15, 2011 (ML 0490507)
- C. Letter dated June 23, 2011 (ML111751377) 🕍
- D. Letter dated February 15, 2013 (ML43050A20)
- E. Letter dated November 7, 2017 (ML17312A895
- F. Letter dated June 13, 2019 (ML19170A272)
- G. Letter dated August 27, 2019 (ML19239A093)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

By:

Region 3

Date: SEP 0 5 2019