OFFICIAL USE ONLY Withhold from Public Disclosure under Revised Code 149.433(A) & (B)

Amendment No. 10

Page 1 of 3

Ohio Department of Health LICENSE FOR RADIOACTIVE MATERIAL

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as 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 applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

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LICENSEE				LICENSE NUMBER			
1. Advanced Gauging Technologies. LLC				3. 03620500001			
					EXPIRATION DATE		
	130 Estates Court ain City, Ohio 43064-5015			4. January 1, 2028			
1	am City, Olio 43004-3013			FILE NUM	IBER – ID NUMBER		
				5. 5004	93-17356		
6. RA	DIOACTIVE MATERIAL		EMICAL AND/OF YSICAL FORM		XIMUM QUANTITY THAT LICENSEE MAY SSESS AT ANY ONE TIME UNDER THIS LICENSE		
А.	Any radioactive material	A.	Sample Media	А.	As needed (see item 9.A, below)		
	with atomic numbers 3 to 83, 88, 94. 95, 96 ,and <i>98</i> ,						
	inclusive						
В.	Iron-55	В.	Sealed Source	В.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).		
C.	Krypton-85	C.	Sealed Source	C.	No single source to exceed 74 GBq (2 Ci), total possession not to exceed 740 GBq (20 Ci).		
D.	Curium-244	D.	Sealed Source	D.	No single source to exceed 37 GBq (1 Ci), total possession not to exceed 370 GBq (10 Ci).		
E.	Cobalt-57	Ε.	Sealed Source	Е.	No single source to exceed 370 MBq (10 mCi), total		
					possession not to exceed 3.7 GBq (100 mCi).		
F.	Cobalt-60	F.	Sealed Source	F.	Total possession not to exceed 37 GBq (1 Ci).		
G.	Strontium-90	G.	Sealed Source	G.	No single source to exceed 37 GBq (1 Ci), total possession not to exceed 185 GBq (5 Ci).		
Н.	Barium-133	Н.	Sealed Source	H.	No single source to exceed 37 MBq (1 mCi), total possession not to exceed 370 MBq (10 mCi).		
I.	Cesium-137		Sealed Source	I.	No single source to exceed 1.11 GBq (30 Ci), total possession not to exceed 3.7 TBq (100 Ci).		
J.	Gadolinium-153	ч. Ј .	Sealed Source	J.	No single source to exceed 740 MBq (20 mCi), total possession not to exceed 37 GBq (1 Ci).		
К.	Radium-226	K.	Sealed Source	K.	No single source to exceed 370 MBq (10 mCi), total possession not to exceed 37 GBq (1 Ci).		
L.	Plutonium-238	L.	Sealed Source	L.	One source not to exceed 3.7 GBq (1 Ci).		
М.	Americium-241	М.	Sealed Source	М.	No single source to exceed 185 GBq (5 Ci), total possession not to exceed 2.7 TBq (85 Ci).		
N.	Americium-241/Beryllium	N.	Sealed Source	N.	No single source to exceed 37 GBq (1 Ci), total possession not to exceed 1.85 TBq (50 Ci).		
0.	Sodium-22	О.	Sealed Source	О.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).		
Р.	Nickel-63	P.	Sealed Source	Р.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).		
Q.	Krypton-85	Q.	Sealed Source	Q.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).		
R.	Ruthenium-106	R.	Sealed Source	R.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).		

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OHIO DEPARTMENT OF HEALTH LICENSE FOR RADIOACTIVE MATERIALS SUPPLEMENTARY SHEET				License Nu	License Number: 03620500001 FILE NUMBER – ID NUMBER: 500493-17356	
			ATERIALS	FILE NUM		
				Amendmen	nt No. <i>10</i>	
S.	Cadmium-109	S.	Sealed Source	S.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).	
Τ.	Iodine-125	Τ.	Sealed Source	Τ.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).	
U.	Promethium-147	U.	Sealed Source	U.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).	
V.	Thallium-204	V.	Sealed Source	V.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).	
W.	Curium-244	W.	Sealed Source	W.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).	
Х.	Californium-252	Х.	Sealed Source	Х.	No single source to exceed 3.7 GBq (100 mCi), total possession not to exceed 37 GBq (1Ci).	
Ва	and E Possession and u ough X. radiation survey	use incident ; , relocation,	to manufacture, t , removal from se	testing, leak ervice, disman	as defined in OAC 3701:1-38-01, testing demonstration, distribution, installation, initia ntlement, alignment, replacement, disposal of the component licted in the repeared explication detect	
			ine maintenance (or repair of c	components listed in the renewal application dated	
	September 12, 20	022.				
	September 12, 20	022.	COND	OITIONS		
0. Lic	September 12, 20					
A	censed material may only be use A. 8430 Estates Court Plain	ed at the licer n City, Ohio	nsee's facilities loo 43064-5015	cated at:		
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Ohio Department of Health	Page 3 of 3	
	License Number: 03620500001	
LICENSE FOR RADIOACTIVE MATERIALS	FILE NUMBER – ID NUMBER: 500493-17356	
SUPPLEMENTARY SHEET	Amendment No. 10	

- 19. A. The licensee shall implement the applicable requirements specified in chapter 3701:1-37 of the OAC if the licensee possesses an aggregated category one or category two quantity of radioactive material as specified in Appendix A to rule 3701:1-37-01.
 - B. The licensee shall notify the director at the location specified in rule 3701:1-40-04 at least ninety days prior to:
 - i. Relocation of an aggregated category one or category two quantity of radioactive material to a new location.
 - ii. Receipt or aggregation of a category one or category two quantity of radioactive material, if the licensee is authorized to possess those quantities of materials but is not currently required to implement the applicable requirements specified in Chapter 3701:1-37 of the OAC.
- 20. A. At the time of installation by the licensee of each device distributed to persons generally licensed pursuant to the provisions of OAC 3701:1-46-05, the licensee shall assure that each device bears a durable, clearly visible and legible label or labels containing the information required by OAC 3701:1-46-30(A)(3) and the following or substantially similar statements:
 -) "Receipt, possession, use and transfer of this device are subject to a general license per OAC 3701:1-46-05 or equivalent U.S. Nuclear Regulatory Commission or Agreement State Regulation."
 - ii) "Abandonment or disposal is prohibited unless transferred to persons specifically licensed by the Director, U.S. Nuclear Regulatory Commission or an Agreement State."
 - iii) "Operation prohibited if there is indication of failure of or damage to shielding, source containment or on-off mechanism."
 - iv) "Installation, dismantling, relocation, maintenance, repair and testing involving radioactive material, its shielding or containment shall be performed by persons specifically licensed by the Director, U.S. Nuclear Regulatory Commission or an Agreement State."

"Device shall be tested for radioactive leakage and proper functioning of on-off mechanism and indicator, if any, at installation, at source replacement, and thereafter at no longer than six month or at such intervals as specified in the certificate of registration issued by the Director under OAC 3701:1-46-49 or by equivalent NRC or Agreement State regulation."

"Loss, theft, or transfer of this device and failure of or damage to the shielding, the source containment or the on-off mechanism must be reported to the Director, U.S. Nuclear Regulatory Commission or an Agreement State."

- B. Each label required by this condition shall bear the statement: "Removal of this label is prohibited."
- 21. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of sealed source licensed material to quantities below the minimum limit specified in OAC 3701:1-40-17 for establishing decommissioning financial assurance.
- 22. 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 Ohio Department of Health's statutes, rules, and orders shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Renewal application dated September 12, 2022 and email correspondence dated September 22, 2022. Amendment 10 renews license number 03620500001 in its entirety.

For the Ohio Department of Health

DATE: October 10, 2022

BY:

W. Gene Phillips, MBA, REHS Chief, Bureau of Radiation Protection On behalf of the Director of Health

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