NRC FORM 374 PAGE OF PAGES									
MATERIALSLICENSE									
WATERIALS 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, and 70, 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 application dated							
		January 24, 2014 and		er dated July 3, 2	014				
1. MPT Research, Inc.		3. License number 21-1	1315						
2. 54943 North Main Street		4. Expiration date Septe	mbe	r 30, 2024					
Mattawan, Michigan 49071		5. Docket No. 030-3875	5		-				
6. Byproduct, source, and/or special 7. nuclear material	Chemical and/	or physical form 8.	Max pos lice	ximum amount that lic sess at any one time nse	ensee may under this				
 A. Any byproduct material with Atomic Numbers between 1- 83, inclusive, with a half-life less than or equal to 120 days, except as specified below B. Fluorine-18 	A. Any B. Any		A. B.	1 curie per radion with a total posse limit of 5 curies 10 curies	uclide				
C. Carbon-11	C. Any		C.	5 curies	n nationalist Nationalist				
D. Nitrogen-13	D. Any		D.	1 curie	ana anta Tana Managan				
E. Oxygen-15	E. Any		Е.	2 curies	Tella.				
F. lodine-124	F. Any		F.	1 curie					
G. Zirconium-89	G. Any		G.	2 curies	ha n				
H. Any byproduct material with Atomic Numbers 3 – 83, inclusive (excluding Zinc-65)	H. Incident Products	ally Activated	H.	200 millicuries					
I. Zinc-65	I. Incidenta Products	ally Activated	1.	300 millicuries					
J. Cesium-137	J. Sealed S	Sources	J.	1 millicurie					
	(Eckert & Isotopes Model G	& Ziegler Products F-137-D)							
 K. Any byproduct material with Atomic Numbers 3 – 83, inclusive (excluding Zinc-65) 	K. Incidenta Remova Compon	ally Activated ble ents	K.	50 millicuries					

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			ATE:				License Number 21-11315-04		-			
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9.	Aut	horized use:										
	A. t	 through G. (1) For production, possession, or handling of radiochemicals for transfer to persons authorized to receive the licensed material pursuant to the terms and conditions of specific license issued by the U.S. Nuclear Regulatory Commission or an Agreement State. 										
	(2) For packaging and distribution of produced radiochemicals to persons authorized receive licensed materials pursuant to the terms and conditions of specific license issued by the Nuclear Regulatory Commission or Agreement States. This should not be diatributed as a radional product of the section data.											
			-				· · · · · · · · · · · · · · ·	се. Зу ай				
	н.,	I., and K.	⊦or	possession	and storage of byp	roduc	t materials incidental to radionu	clide prod	uction.			
	J.		Cali	bration and	checking of the lice	ensee	s instruments.					
					CONDIT	IONS						
10.	Lic Ma	ensed mater attawan. Mich	rial sh niqan.	all be used o	only at the licensee	's fac	ilities located at 54943 North Ma	ain Street,				
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11.	in S	e Radiation a	Salety	y Officer for t	nis license is Richa	ara Gi	anderg		Sect			
12.	Lic Ch	ensed mater ristina Carpe	rial sh enter l	all be used I Brown, and I	by, or under the sup Destiny Weems.	p ervis	ion of, Marc Berridge, Ph.D., So	ott Apana				
13.	Th	is license do	es no	t authorize d	istribution pursuan	t to 32	2.72 or 32.74; to persons exemp	ot from lice	ensing;			
	or	to general lic	ense	es.					ss. A gi			
14.	Α.	Sealed sour	rces s ecifie	shall be teste d in the certi	d for leakage and/ ficate of registration	or cor n issu	ntamination at intervals not to ex ed by NRC under 10 CFR 32.2	ceed the 10 or by a	∝ n			
		Agreement	State			and the second						
	B.	In the abser intervals sp Agreement into use unt	nce of ecified State til test	f a certificate d in the certi prior to the ed.	from a transferor i ficate of registration transfer, a sealed s	ndica n issu source	ting that a leak test has been m ed by NRC under 10 CFR 32.2 received from another person	ade within 10 or by ai shall not b	n the n be put			
	C.	Sealed sour when they a tested within source shal contaminati	rces n are rei n the I be s on.	need not be l moved from required leal tored for a p	eak tested if they a storage for use or t k test interval, they eriod of more than	transf shall 10 ye	storage, and are not being used erred to another person, and ha be tested before use or transfer ars without being tested for leal	l. Howeve ive not be r. No seal kage and/	r, en ed or			
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	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-38755	Reference Number 755					

- D. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie 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 III, 2443 Warrenville Road, Lisle, Illinois 60532, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- E. Tests for leakage and/or contamination shall be performed by the licensee or other persons specifically licensed by the Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for three years.
- 15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee, except as specifically authorized.
- 16. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license.
- 17. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
 - A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - B. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
- 18. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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