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U.S. NUCLEAR REGULATORY COMMISSION Amendment No. 03						
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, 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 affect and to any conditions specified below.						
Licensee		In accordance with letter dated				
1. Macomb Community College c/o Sharon Lafferty		<ul> <li>3. License number 21-32692-01 is amended in its entirety to read as follows:</li> </ul>				
2. 14500 E. 12 Mile Road		4. Expiration date June 30, 2018				
Warren, MI 48088-3896		5. Docket No. 030-37745 Reference No.				
<ul> <li>6. Byproduct, source, and/or special</li> <li>7. Chemical and/or physical form</li> <li>8. Maximum amount that licensee may possess at any one time under this license</li> </ul>						
A. Technetium-99m	A. Unsealed salt/liquid	organic A. 1000 millicuries				
B. Cesium-137	B. Sealed so Ziegler Mo NES- Seri Sources)	Sealed source (Eckert & B. 500 millicuries Ziegler Model FL,PF and NES- Series Flood Sources)				
C. Gallium-67	C. Unsealed salt/liquid	organic C. 100 millicuries				
D. Thallium-201	D. Unsealed salt/liquid	organic D. 100 millicuries				
E. lodine-123	E. Unsealed salt/liquid	organic E. 100 millicuries				
FIIndium-111	F. Unsealed salt/liquid	organic F. 100 millicuries				
G. Cobalt-57	G. Sealed so Ziegler Mo NES- Serie Sources)	urces (Eckert & G. 20 millicuries odel FL,PF and les Flood				
9 Authorized use						
A. through G. For student instruction, related equipment testing and quality control studies.						
CONDITIONS						
<ol> <li>Licensed material shall be received, used and stored only at the licensee's facilities located at 44575 Garfield Road, Clinton Township, Michigan.</li> </ol>						
11. The Radiation Safety Officer for this license is James M. Botti, M.S.						

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12.	Lic	ense	d materials shall be used by, or under the supe	ərvision of, Ka Kit Wong, M.D.		
13.	The Par	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."				
14.	Lice	Licensed material shall not be used in or on human beings.				
15.	i. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.					
16.	6. Licensed material shall not be used in or on human beings.					
17.	A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.					
	В.	. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.				
	C.	Seal	led sources need not be leak tested if:			
		(i)	they contain only hydrogen-3; or			
		(ii)	they contain only a radioactive gas; or			
		(iii)	the half-life of the isotope is 30 days or less; or			
		(iv)	they contain not more than 100 microcuries of be than 10 microcuries of alpha emitting material; or	eta and/or gamma emitting material or not more r		
		(v)	they are not designed to emit alpha particles, are when they are removed from storage for use or to been tested within the required leak test interval, sealed source or detector cell shall be stored for tested for leakage and/or contamination.	in storage, and are not being used. However, ransferred to another person, and have not they shall be tested before use or transfer. No a period of more than 10 years without being		
	D.	D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) 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 for inspection by the Commission. Records may be disposed of following Commission inspection.				

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-	E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.					
18.	<ol> <li>The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed.</li> </ol>					
19.	19. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.					
20.	The licensee is authorized to hold radioactive material days for decay in storage before disposal in ordinary tr	with a physical half life of less than or equal to 120 ash 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.					
I	B. A record of each disposal permitted under this License Condition shall be retained for 3 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.					
21.	21. The licensee shall not acquire licensed material in a sealed source or device that contains a sealed source unless the source or device has been registered with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State:					
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. 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 April 9, 2008; and,					
	B. Letters dated April 7, 2008, June 16, 2008, and August 1, 2008.					
	FOR TH	HE U.S. NUCLEAR REGULATORY COMMISSION				
Date	MAY 2 4 2012 By	Joep L. Serenins				

Toye L. Simmons / Materials Licensing Branch Region III