NRC FORM 374 U.S. NUCLEAR REGULAT	PAGEOFPAGES					
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 effect and to any conditions specified below.						
Licensee						
1. Pharmacia & Upjohn Company LLC	3. License number 21-32848-04					
2. 7000 Portage Road	4. Expiration date October 31, 2022					
Kalamazoo, MI 49001	5. Docket No. 030-38566					
	Reference No.					
 Byproduct, source, and/or 7. Chemical and/or physical special nuclear material 	al form 8. Maximum amount that licensee may possess at any one time under this license					
A. Cesium-137 A. Sealed sources either with NRC 32.210 or with a State and incorp compatible gaug specified in Item license.	under 10 CFRmillicuries each, 2 sourcesin Agreementnot to exceed 5 millicuriesporated in aeach, 1 source not toging device asexceed 50 millicuries and 1					
9. Authorized use:						
A. For use in Kay Ray Model 7062BP, TN Techn Tech Model 5201 source holders for level mea	ologies Models 5200 and 5205, and Thermo Measure asurements.					
CONDIT	IONS					
10. Licensed material may be used only at the licensee Michigan.	's facilities located at 7000 Portage Road, Kalamazoo,					
11. The Radiation Safety Officer (RSO) for this license i	is Timothy Popp.					
12. Licensed material shall be used by, or under the supervision of individuals who have received the training described in the application dated July 17, 2012. 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 shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. 						

NRC FORM 374A		M 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 2 of 4 PAGES		
	Bassys			License Number 21-32848-04		
			MATERIALS LICENSE	Docket or Reference Number 030-38566		
				U3U-30300		
	B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.					
	C. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.					
	D.	the test contam with 10 deconta shall be Regulat	ak test shall be capable of detecting the presence t sample. If the test reveals the presence of 0.0 ination, a report shall be filed with the U.S. Nuc CFR 30.50(c)(2), and the source shall be remo aminated, repaired, or disposed of in accordance filed within 5 days of the date the leak test res tory Commission, Regional Office referenced in becify the source involved, the test results, and	clear Regulatory Commission in accordance oved immediately from service and ce with Commission regulations. The report sult is known with the appropriate U.S. Nuclear n Appendix D of 10 CFR Part 20. The report		
		persons perform samples State to	or leakage an/or contamination, limited to leak t s specifically licensed by the U.S. Nuclear Regu n such services. The licensee is not authorized s must be performed by persons specifically lice o perform such services. s of leak test results shall be kept in units of mid	ulatory Commission or an Agreement State to to perform the analysis. Analysis of leak test ensed by the Commission or an Agreement		
14.			rces containing licensed material shall not be o 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 5 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.	Α.	any, at i registrat	auge shall be tested for the proper operation of intervals not to exceed 6 months or at such long tion issued by the U.S. Nuclear Regulatory Con ent regulations of an Agreement State.			

B. Notwithstanding the periodic on/off mechanism (shutter) and indicator test, the requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use.

NRC	FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 3 of 4 PAGES			
			License Number			
		MATERIALS LICENSE	Docket or Reference Number			
		SUPPLEMENTARY SHEET	030-38566			
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17.	 The following services shall not be performed by the licensee: installation, initial radiation surveys, relocation, removal from service, dismantling, alignment, replacement, disposal of the sealed source an 					
	non-routine maintenance or repair of components related to the radiological safety of the gauge (i.e., the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control,					
	shielding)	. These services shall be performed only by pe	rsons specifically licensed by the U.S. Nuclear			
	Regulator	y Commission or an Agreement State to perform	n such services.			
18.	The licensee may initially mount a gauge if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State and under the following conditions:					
	A. the ga	uge must be mounted in accordance with writte	n instructions provided by the manufacturer;			
		uge must be mounted in a location compatible				
		ations and/or Other Considerations of Use" in th ar Regulatory Commission or an Agreement Sta				
		vise fully shielded;	off position, if applicable, or the source must be			
	D. the ga	uge must be received in good condition (i.e., pa	ckage was not damaged); and			
	E. the ga	uge must not require any modification to fit in th	e proposed location.			
	remain ful	does not include electrical connection, activatio ly shielded and the gauge may not be used unti ecifically licensed by the U.S. Regulatory Comn s.	I it is installed and made operational by a			
19.	radiolo for any	censee may maintain, repair, or replace device ogical safety of the device containing byproduct y portion of the body to come into contact with the essible areas.				
	source shieldi	ensee may not maintain, repair, or replace any e, the source holder, source drive mechanism, o ng, or any other component related to the radio rise by specific condition of this license.	n-off mechanism (shutter), shutter control, or			
20.	the source determine This surve		assure that a radiological survey is performed to ove, and below the gauge with the shutter open.			
21.		ee shall operate each device containing license	d material within the manufacturer's specified			

I he licensee shall operate each device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.

NRC	C FORM 374A	U.S. NUCLEAR REGULATORY COM	MISSION		PAGE 4 of	4	PAGES
			÷	License Number 21-32848-04			
		MATERIALS LICENSE		Docket or Reference Number			
		SUPPLEMENTARY SHEET		030-38566			
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22.	The licensee shall assure that the shutter mechanism of each device is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify, as appropriate, its "lock-out" procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations.						
23.	authorization source, devi indicated in	maintaining labeling as required by 10 on from the U.S. Nuclear Regulatory 0 vice or source-device combination tha n the respective certificate of registration by an Agreement State.	Commissi at would a	on before making any ch lter the description or spe	anges in the ecifications	e sea as	
24.		ee is authorized to transport licensed r Packaging and Transportation of Radio			ovisions of 1	0 ĊF	₽R
25.	25. 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 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. Applica	ition dated July 17, 2012; and					4 -
	B Letters	dated July 30, 2012 and					
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Date	, OCT 2 2	3 2012 ву	, or	K. A. Simon	and		
	Toye L. Simmons						
	Materials Licensing Branch Region IIII						