MELPAR, INC. 3000 ARLINGTON BOULEVARD, FALLS CHURCH, VIRGINIA JEFFERSON 4-6000

## 3 June 1964

Atomic Energy Commission Washington 25, D. C.

> Re: Byproduct Material License No. 45-7548-1 (G65)

Attn: Mr. Robert E. Brinkman, Isotopes Branch Division of Licensing and Regulation

Gentlemen:

Enclosed herewith find supplementary application in triplicate, requesting an amendment to the above license permitting the use of Cesium-137, with Dr. Robert C. McIlhenny as sole user.

If there is any further information you desire, we will be pleased to furnish it.

Very truly yours,

MELPAR, INC.

Austin G. Roe House Counsel

Encls.



65035

A SUBSIDIARY OF WESTINGHOUSE AIR BRAKE COMPANY

Atomic Energy Commission Division of

Form AEC-313 SUPPLEM (5-58)	ENTARY ATOMIC ENERGY C PPLICATION FOR BYPRODU		Form approved. Budget Bureau No. 38–R027			
plete only items 1 through 7 a supplemental sheets where near Commission, Washington 25, D application, the applicant will	and indicate new information or rssary, Item 16 must be complete , C. Attention: Isotopes Brand receive an AEC Byproduct Ma quirements contained in Title 16	itial application. If application is changes in the program as request ed on all applications. Mail three c ch, Division of Licensing and Reg terial License. An AEC Byproduct 0, Code of Federal Regulations, Po	ted in Items 8 through 15. Us opies to: U. S. Atomic Energ ulation. Upon approval of thi Material License is issued			
I. (a) NAME AND STREET ADDRESS OF A	PPLICANT. (Institution, firm, hospital,	(b) STREET ADDRESS(ES) AT WHICH BYPR different from 1 (a).)	ODUCT MATERIAL WILL BE USED.			
Melpar, Inc. Arlington Blvd.		No change				
Falls Church, Va	•					
2. DEPARTMENT TO USE BYPRODUCT MATE	RIAL	3. PREVIOUS LICENSE NUMBER(S). (If th	nis is an application for renewal o			
Research Division		license, please indicate and give number.) #45-7548-1 (including amendments) (G65)				
<ol> <li>INDIVIDUAL USER(S). (Name and title supervise use of byproduct material. Gir 9.) ADD as sole use</li> </ol>	e training and experience in Items 8 and	<ol> <li>RADIATION PROTECTION OFFICER (Nam tection officer if other than individual user perience as in Items 8 and 9.)</li> </ol>				
Dr. R. C. McIlh	enny	No Change				
6. (a) BYPRODUCT MATERIAL. (Elements		ORM AND MAXIMUM NUMBER OF MILLICURI				
ADD as new Subitem I. of Item 6. of existing license:	ICAL FORM THAT YOU WILL FOS number, number of sources and me ADD as new Subi license:		s), also state name of manufacturer, ma f existing			
I. Cesium-137	I. Sealed Sources. Radioisotope-Modified version of Standard CES-I-RAD 1000 unit American Nuclea Corporation; loaded with two 1000 curie Cesium- 137 sources - sources to be double encapsulated in stainless steel capsules and leak tested be- fore loading.					
	ADD as new Subi license:	tem I. of Item 8. o	f existing			
	I. 2000 curies.					
<ol> <li>DESCRIBE PURPOSE FOR WHICH BYPRO pleted in lieu of this item. If byproduct n which the source will be stored and/or use</li> </ol>	naterial is in the form of a sealed source,	yproduct material is for ''human use,'' suppleme include the make and model number of the	ent A (Form AEC-313a) must be com- storage container and/or device in			
I. To be used for radiation-dama	experimental pro ge to electronic e used are neithe	f existing license: grams in radiation components and circ r explosive nor hig c products are anti-	uits. The nly toxic, and			
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0. 1111.				JAL NAMED IN ITE	······································		1
<ul> <li>8. TYPE OF TRAINING</li> <li>a. Principles and practices of radiation protection</li> <li>b. Radioactivity measurement standardization and monitoring techniques and instruments</li> </ul>			WHERE TRAINED		DURATION		FORMAL COL (Circle answi Yes No Yes No
						Yes No	
		in-				Yes No	
c. Mathe	matics and calculations basic to nd measurement of radioactivity	the	-ĤO	· · · · · · · · · · · · · · · · · · ·		Yes No	Yes N
	gical effects of radiation					Yes No	Yes N
		ual use of radioise	otopes or equivale	ent experience.)		·····	
ISOTOPE		WHERE EXPERIENC			N OF EXPERIENCE	TYPE O	FUSE
-			•	No change			
10. RADI	ATION DETECTION INSTRUMEN	TS. (Use supplem	nental sheets if ne	ecessary.)			· · · · · · · · · · · · · · · · · · ·
(Include	TYPE OF INSTRUMENTS make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNE (mg/cm²)	SS (Monitoring, sur	ISE reying, measuri
1		. e	No	change		· · · · ·	
				01101100			
• • •			- <sup>1</sup> 7 				
	,						
12. FILM I	BADGES, DOSIMETERS, AND BIO-7	ASSAY PROCEDURE	ES USED. (For film		l of calibrating and prov	cessing, or name of supp	lier.)
			No	change			
, ,				MITTED ON ADD		·	·····
	ITIES AND EQUIPMENT. Describe ility is attached. (Circle answer)	e laboratory faciliti Yes No		upplement, storag		fume hoods, efc. Exp	lanatory sketch
testing	ATION PROTECTION PROGRAM. g procedures where applicable, nar maintenance and repair of the sau	me, training, and e		• •			
				<u>upplementa</u>			
	E DISPOSAL. If a commercial wo ed for disposing of radioactive wa					•	nods which will
	· · · · · · · · · · · · · · · · · · ·	CERTIFICATE	<u>(This item m</u>	ust be complete			
	APPLICANT AND ANY OFFICIAL E RED IN CONFORMITY WITH TITLE	10, CODE DELECE	RAL RECULATION	BEHALF OF THE APPLICA , PART 30, AND THAT TOUR KNOWLEDGE A	ALL INFORMATION C		
PREPA	2 June 1964			F9 By: Dr. Vice	P. E. Ritt	Researc	:h
PREPA SUPPI	LEMENTS ATTACHED HERETO, IS			By: Dr. Vice	P. E. Ritt President	; - Researc	

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