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

14 June 1962

Atomic Energy Commission Washington 25, D. C.

> Attn: Mr. J. R. Mason, Chief, Isotopes Branch. Division of Licensing and Regulation

Subject: Byproduct Material License No. 45-7548-1 (G63). Supplementary Application

Gentlemen:

Enclosed herewith find supplementary application, in triplicate, requesting an amendment to the above license permitting the use of Strontium 90 by Dr. Victor R. Huebner, Senior Scientist.

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

Encl.

supplemental sh Commission, Wa application, the accordance with	s ] through 7 and eets where necessa shington 25, D. C applicant will rea the general requir	indicate new information c ary, Item 16 must be complet Attention: Isotopes Brar ceive an AEC Byproduct Mo	nitial application. If application is f or changes in the program as request ted on all applications. Mail three c nach, Division of Licensing and Reg aterial License. An AEC Byproduct 10, Code of Federal Regulations, Pa	ed in Items 8 through 15. Us opies to: U. S. Atomic Energ ulation. Upon approval of thi Material License is issued i
person, etc.) Melpar, 3000 Ar			(b) STREET ADDRESS(ES) AT WHICH BYPRC different from 1 (a).)	DDUCT MATERIAL WILL BE USED.
2. DEPARTMENT TO US	E BYPRODUCT MATERIAL		3. PREVIOUS LICENSE NUMBER(S). (If the license, please indicate and give number.)	is is an application for renewal of
Researc	h Division		#45-7548-1(G63) - p (including amendme	resent license nts)
supervise use of byp <sup>9.)</sup> Add to individu	oduct moterial Give no existing 1 al user of or R. Huebr	ndividual(s) who will use or directly aining and experience in Hems 8 and license as sole Strontium 90: ner, Senior		
E. of It	er of each.) ew Subitem em 6 of license:	ICAL FORM THAT YOU WILL PO number, number of sources and n Add as new Su E. U. S. Radin source, si		), also state name of manufacturer, mo f existing licer LAB 369-1.Seale Strontium 90.
		Add as new Su E. Maximum am	bitem E. of Item 8 o ount: 20 mc as seal	-
pleted in lieu of this which the source will	item. If byproduct mater be stored and/or used_)	ial is in the form of a sealed source,	byproduct material is for ''human use,'' suppleme include the make and model number of the	nt A (Form AEC-313a) must be com- storage container and/or device in
E. To b		research invest	f existing license: igations in experime	ntal gas
		Mandin	NGATEM	

orm AEC-313 (5-58)									Page Tw
TRAINING AND EXP	ERIENCE OF E	ACH INDIVIDU	AL NA	MED IN ITE	A 4 (Use supplem	ental sheets if	necessary	)	
TYPE OF TRAINING		WHERE TRAINED				DURATION OF ON THE JO TRAINING (Circle answe		FORMAL COURSE (Circle answer)	
Principles and practices of radiatio	)	Nó change				Yes	Yes No Yes		
Radioactivity measurement standardize tion and monitoring techniques and in	Radioactivity measurement standardiza-					Yes	No	Yes	No
struments		· · · · · · · · · · · · · · · · · · ·							
<ul> <li>Mathematics and calculations basic to the use and measurement of radioactivity</li> </ul>		•				Yes	No	Yes	No
Biological effects of radiation	1				·	Yes	No	Yes	No
<u> </u>		topes or equivale	nt experi						
OTOPE MAXIMUM AMOUNT V	HERE EXPERIENC	E WAS GAINED	·	DURATION	OF EXPERIENCE	+	TYPE C	DF USE	_
	No	change							
0. RADIATION DETECTION INSTRUMENTS	(Usé suppler	nental sheets if ne	cessory.)	<u></u>					
TYPE OF INSTRUMENTS (Include make and model number of each)		RADIATION DETECTED	SENSIT	VITY RANGE	WINDOW THICKN (mg/cm <sup>2</sup> )			USE veying, med	suring)
	·				· · · · · · · · · · · · · · · · · · ·				
					S.				
,	No	change							
						1			
1. METHOD, FREQUENCY, AND STANDARDS	USED IN CALIBR	ATING INSTRUME	NTS LISTE	D ABOVE.					
	No	change		×		:			
2. FILM BADGES, DOSIMETERS, AND BIO-AS	SAY PROCEDURE	S USED. (For film	n badges,	specify method	of calibrating and pr	ocessing, or na	me of sup	olier.)	
	No	change							
			MITTED	ON ADD	ITIONAL SHEET	S	<u> </u>		
3. FACILITIES AND EQUIPMENT. Describe of facility is attached. (Circle answer)	laboratory faciliti Yes No				e containers, shieldin	g, fume hoods,	etc. Ex	planatory sk	etch
4. RADIATION PROTECTION PROGRAM.		ation protection p	+	cluding control					
testing procedures where applicable, name icing, maintenance and repair of the source		sperience of person See att				performing in	mai radiat	ion survey,	serv-
5. WASTE DISPOSAL. If a commercial was be used for disposing of radioactive wast		e is employed, spe	cify nome	of company.	Otherwise, submit d	•	tion of me	thods which	will
	ERTIFICATE	(This item m	ust be	complete	d by applicant				
-		RAL REGULATION	S, PART 3	0, AND THAT	ALL INFORMATION				
6. THE APPLICANT AND ANY OFFICIAL EX PREPARED IN CONFORMITY WITH TITLE 10				MELP	AR. INC.				•
6. THE APPLICANT AND ANY OFFICIAL EX PREPARED IN CONFORMITY WITH TITLE 18 SUPPLEMENTS ATTACHED HERETO, IS TR				Applicant	AR, INC.	n I.A			•
6. THE APPLICANT AND ANY OFFICIAL EX PREPARED IN CONFORMITY WITH TITLE 10				Applicant	named in item 1	CLA tt			•
6. THE APPLICANT AND ANY OFFICIAL EX PREPARED IN CONFORMITY WITH TITLE 10 SUPPLEMENTS ATTACHED HERETO, IS TR		5. <		Applicant By: Dr.			lesea	.rch	•
6. THE APPLICANT AND ANY OFFICIAL EX PREPARED IN CONFORMITY WITH TITLE 10 SUPPLEMENTS ATTACHED HERETO, IS TR				Applicant By: Dr. Vic	named in item 1 P. E. Ri		lesea	.rch	•

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Item 14.

Sealed source leak tests will be performed semi-annually by the individual user. Each source will be thoroughly wiped on both sides and along the edges with an absorbent cotton swab which has been moistened with alcohol. In performing the leak test, the source and swab will be handled with tongs. The activity of the cotton swab will be determined with a Baird Atomic end window flow counter (range is from 0 to lx10<sup>7</sup> counts). A permanent record of count rate will be kept.

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